

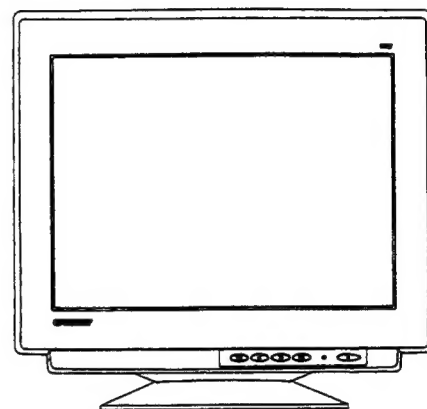
# Service Manual

Multi -Scan Color CRT Display

MODEL V115-2 Ver.1.0 (M-D1F63QUL)  
V115-2 Ver.1.1

**Chassis No. HV10S**

**Chassis Family No.VCDTS21367-2**



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## **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public.

It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.

Products powered by electricity should be serviced or repaired only by experienced professional technicians.

Any attempt to service or repair the product or products dealt within this service information by anyone else could result in serious injury or death.

## SAFETY PRECAUTIONS

### 1 CAUTION:

No modification of any circuit should be attempted. Service work should only be performed after you are thoroughly familiar with all of the following safety checks and servicing guide lines.

### 2 SAFETY CHECK

Care should be taken while servicing this CRT display because of the high voltage used in the deflection circuits. These voltages are exposed in such areas as the associated flyback and yoke circuits.

### 3 FIRE & SHOCK HAZARD

- 3-1 Insert an isolation transformer between the CRT display and AC power line before servicing the chassis.
- 3-2 In servicing pay attention to original lead dress especially in the high voltage circuit. If a short circuit is found, replace all parts which have been overheated as a result of the short circuit.
- 3-3 All the protective devices must be reinstalled per original design.
- 3-4 Soldering must be inspected for possible cold solder joints, frayed leads, damaged insulation, solder splashes or sharp solder points. Be certain to remove all foreign material.

### 4 LEAKAGE CURRENT COLD CHECK

- 4-1 Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 4-2 Turn the CRT display power switch "on".
- 4-3 Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metallic part on the CRT display such as the metal frame, screwheads, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be 1.8 megohm minimum.

### 5 LEAKAGE CURRENT HOT CHECK

- 5-1 Plug the AC cord directly into the AC outlet. Do not use an isolation transformer during this check.
- 5-2 Connect a 1500 ohm, 10 watt resistor, paralleled by a 0.15 $\mu$ F capacitor between each exposed metallic part and a good earth ground (as shown in Fig.1).
- 5-3 Use an AC voltmeter with 1000 ohm/volt or more sensitivity and measure the AC voltage across the combination 1500 ohm resistor and 0.15 $\mu$ F capacitor.
- 5-4 Move the resistor connection to each exposed metallic part and measure the voltage.
- 5-5 Reverse the polarity of the AC plug in the AC outlet and repeat the above measurement.
- 5-6 Voltage measured must not exceed 7.5 volt RMS, from any exposed metallic part to ground. A leakage current tester may be used in the above hot check, in which case any current measured must not exceed 5.0 milliamp. In the case of a measurement exceeding the 5.0 milliamp value, a rework is required to eliminate the chance of a shock hazard.

*Note: High voltage is present when this CRT display is operating. Always discharge the anode of the picture tube to the display chassis to prevent shock hazard.*

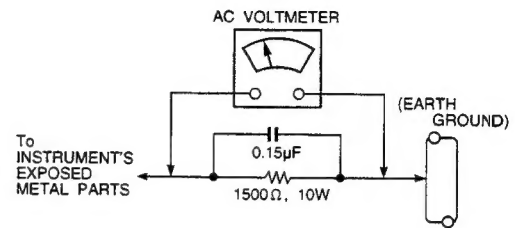


Fig.1

### 6 IMPLOSION PROTECTION

Picture tubes are equipped with an integral implosion protection system, but care should be taken to avoid damage and scratching during installation. Use only Panasonic replacement picture tubes.

### 7 X-RADIATION

**WARNING:** The only potential source of X-Radiation is the picture tube. However when the high voltage circuitry is operating properly there is no possibility of X-Radiation problem. The basic precaution which must be exercised is to keep the high voltage at the following factory-recommended level.

*Note: It is important to use an accurate periodically calibrated high voltage meter.*

- 7-1 The procedure for adjustment high voltage is as shown on page 23.
- 7-2 If can not be adjust 27.0 kV at immediate service is required to prevent the possibility of premature component failure.
- 7-3 To prevent X-Radiation possibility it is essential to use the specified picture tube.

### IMPORTANT SAFETY NOTICE

There are special components used in this CRT displays which are important for safety. These parts are identified by the international symbol  $\Delta$  on the schematic diagram and on the replacement parts list. It is essential that these critical parts should be replaced with manufacture's specified parts to prevent X-RADIATION, shock, fire or other hazards. Do not modify the original design or this will void the original parts and labor guarantee.

## GENERAL INFORMATION

### 1. OUTLINE

This monitor is 21 inch ( 20.0viewable )multi-scan color CRT display with the following features.  
IIC Bus Micro processor & Enhanced OSD are newly introduced, which optimize the function.

### 2. FEATURES

#### 2-1 SSP-Lite LSI (Advanced Super Signal Processor) mounted

Precise wave forms are generated for the correction of each geometric distortion.

#### 2-2 Power Saving

Built-in Power Saving function based on VESA-DPMS standard.

Power energy shall be saved by controlling the circuit in accordance with power saving signal from computer.

#### 2-3 OSD (on screen display) function

OSD (5 languages & multi location) is new and excellent man-machine interface.

Anyone is able to set up the picture as he likes through icon & four keys in front bezel.

#### 2-4 Self Test function

Self testing picture comes out by pushing any key in the case of no-connection with computer or power saving operation.

This function shows if monitor is alive or not and can be used for self aging test.

#### 2-5 Ergonomic design

- Low emission design to meet MPR II & TCO'92
- ESF (Electro static field) free coating on CRT

- Tilt & swivel stand is mounted

#### 2-6 Multi scan with digital technology

8 bit micro computer controls the circuit operation to meet with wide range signal of  $f_H=30\sim92$  kHz and  $f_V=50\sim180$  Hz.

So VGA, SVGA, XGA(1024x768), SXGA (1280x1024) are applicable.

#### 2-7 1 Factory presets, (+7 Reservation), 13 user memories.

- 1 standard mode is preset at the factory.
- 7 modes are reserved at the factory.
- 13 user memories are available to set the user's own timing and display information.

#### 2-8 Flat Face and fine dot pitch

Flat face CRT with fine dot pitch of 0.25 mm (Horizontal:0.218mm / Vertical:0.130mm)gives a crispy and comfortable sight of the screen.

#### 2-9 Superior display performance

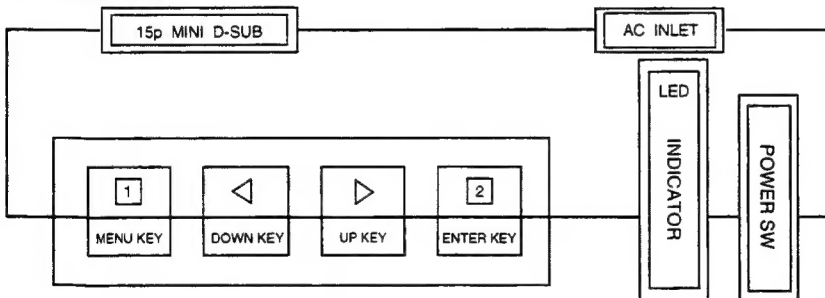
- Good focus by sophisticated gun and dynamic focus circuit
- High contrast
- Minimized distortion by digital correction circuit
- Good convergence
- Users enjoy full scan image for graphics .

#### 2-10 Special function

- VESA DDC1/2B (Display Data Channel) compatible
- Rotation control circuit
- Multi color:9300k, 7500k & 6500k & 5000k are preset at the factory
- MOIRE Reduction circuit

## SPECIFICATION

### 1. DIAGRAM



1.1 POWER SW, LED, [1]-key (MENU), <-key (DOWN), >-key (UP), and [2]-key (ENTER) are located on the front panel.

1.2 Signal cable and AC inlet are located on the back side of the cabinet.

1.3 OSD menu includes the following function.

CONTRAST	BRIGHTNESS	SIZE & POSITION
GEOMETRY	ROTATION	COLOR SELECT
RECALL	VIDEO INPUT LEVEL	H.MOIRE
V.MOIRE	LANGUAGE	OSD POSITION
DEGAUSS	SIGNAL	

※) CONTRAST can be directly controlled with </>-key.

※) With sync signal, OSD menu appears by pushing [1]-key and [2]-key.

Without sync signal, self test menu appears by pushing any key.

※) Size & Posi.....H.POSITION, H.SIZE, V.POSITION, V.SIZE

※) GEOMETRY.....V.PINCUSHION/ BALANCE, TRAPEZOID, PARALLELOGRAM

※) Video clamp pulse phase can be changed by simultaneously operation for [1] and [2] key .

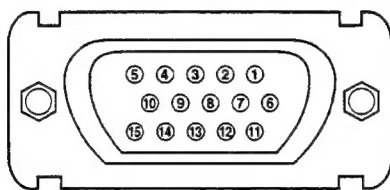
## 2. MECHANICAL SPECIFICATIONS

..... refer to the attached drawing

- 2.1 Dimension    Height : 487 mm (19.2")    (typ.)  
                          Width : 505 mm (19.9")    (typ.)  
                          Depth : 519 mm (20.4")    (typ.)  
 2.2 Net Weight                : 27.5 Kg (60.5lbs) (typ.)  
 2.3 Maximum Viewable Phosphor Display Area:  
    : 508mm (20.0")    (typ.)

## 3. CONNECTORS

- 3.1 Signal connector:  
                                  15P Mini D-Sub  
 3.2 AC inlet:    CEE 22 typed connector  
**<15P Mini D-Sub 15P PIN assignment>**



- 1 ... RED                      6 ... GROUND    11 ... GROUND  
 2 ... GREEN                7 ... GROUND    12 ... SDA (DDC)  
 3 ... BLUE                  8 ... GROUND    13 ... H. SYNC.  
 4 ... GROUND                9 ... - (OPEN)    14 ... V. SYNC.  
 5 ... GROUND (DDC)    10 ... GROUND    15 ... SCL (DDC)

## 4. CRT SPECIFICATIONS

Part No.	M51KYY540X
Type	21", 90°, 29° in-line gun (Viewable 20.0")
Dot Pitch	Horizontal: 0.218mm/Vertical: 0.130mm
Phosphor	R, G, B short persistence (Hi-Eu RED)
	Red x=0.635 typ, y=0.333 typ Green x=0.280 typ, y=0.595 typ Blue x=0.152 typ, y=0.063 typ
Bulb	DARK TINT
Face coating	NEW AGRAS COAT
Total Transmission	39.5%

## 5. ELECTRICAL SPECIFICATIONS

### 5.1 Standard conditions ... Except special items

Display image	Green, full "H" characters with a border line. (7 x 9 dots) Video signal : 100% duty Display area : 392 mm x 294 mm
Video signal level	0.7 V pp
Contrast, Brightness	Contrast : Max., Brightness : detent point
Ambient Temperature	20±5°C (68 ± 9°F)
Input Voltage	AC 120 V, 60 Hz or AC 220 V, 50 Hz
Terrestrial magnetism	Vertical field : northern hemisphere field 40µT Horizontal field : no field
Viewing direction	Parallel to the CRT axis
Measurements	After an initial warming up time of more than 30 minutes.
Ambient light	200±50 lx
Display mode	1024 x 768 (60.02 kHz, 75.03 Hz)

## 5.2 POWER

### 5.2.1 Power supply ... Commercial power source

Input voltage	AC 90 - 132 V, AC 198 - 264 V
Power frequency	50 Hz ± 3 Hz, 60 Hz ± 3 Hz
Input current	2.7 A Max. (100 V)
Inrush current (at 20° C)	40 A op      note: Cold Start
Power consumption	145 W Typ. 160 W max. (AC 100V)

### 5.2.2 Power Management for Power Saving ...

Power saving system is designed based upon VESA DPMS standard (Version : 1.0)

#### 1) Power consumption and recovery time.

*1 APM State	SIGNALS			MONITOR POWER CONSUMP- TION	RECOVERY TIME TO ON STATE	INDICATOR
	H. Sync	V. Sync	VIDEO			
ON	*3 NOR- MAL	*3 NOR- MAL	*2 ACTIVE	*4 100%	—	Green
STAND- BY	No Sync or *5 < 10 Hz	> 40 Hz	BLANK	< 15 W	< 4 sec.	Yellow
SUS- PEND	> 10 kHz	No Sync or *5 < 10 Hz	BLANK	< 15 W	< 4 sec.	Yellow
OFF	No Sync or *5 < 10 Hz	No Sync or *5 < 10 Hz	BLANK	< 4 W	< 20sec	Yellow

\*\* The transition time from ON state to each APM states is 5 seconds minimum.

\*1 : APM : Advanced Power Management

\*2 : Measurement Condition of power consumption for ON state :

DISPLAY IMAGE : WHITE full "H" characters (7 × 9 dots).

\*3 : NORMAL : See "5.4 ACCEPTABLE TIMING".

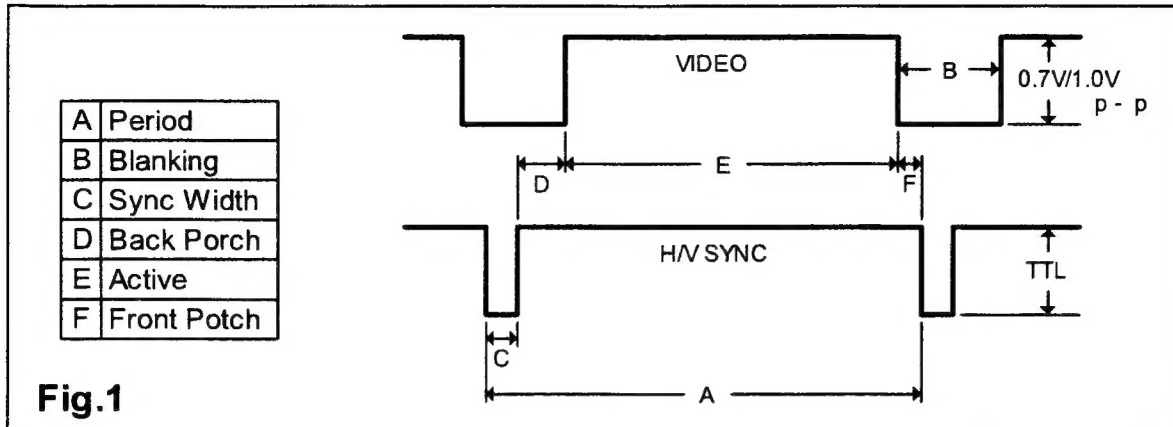
\*4 : Power Consumption is measured at AC 100-240V. (Note: 3w Typ. at AC 230V/50Hz)

\*5 : Power saving operation is done at least less than specified value in the list.

### 5.3 Standard timing (Standard mode)

- Following 1 mode is preset in the memory as standard timing at the factory and 7 modes are reserved.
- Fig-1 shows a definition of timing and signal level.
- Electrical performance is specified. This SPECIFICATION is specified at STD (1024 x 768) mode unless otherwise mentioned.

# TIMING CHART



		PRESET	RESERVATION	RESERVATION
		MODE - 1	MODE - 2	MODE - 3
		1600 × 1200 (75)	640 × 480 (60)	640 × 480 (75)
DOT CLOCK		202.5000 MHz	25.1750 MHz	31.5000 MHz
H	fH	93.7500 kHz	31.4688 kHz	37.5000 kHz
	A - PERIOD	10.667 μs ( 2,160 dots )	31.778 μs ( 800 dots )	26.667 μs ( 840 dots )
	B - BLANKING TIME	2.765 μs ( 560 dots )	6.356 μs ( 160 dots )	6.349 μs ( 200 dots )
	C - SYNC WIDTH	0.948 μs ( 192 dots )	3.813 μs ( 96 dots )	2.032 μs ( 64 dots )
	D - BACK PORCH	1.501 μs ( 304 dots )	1.907 μs ( 48 dots )	3.810 μs ( 120 dots )
	E - ACTIVE TIME	7.901 μs ( 1,600 dots )	25.422 μs ( 640 dots )	20.317 μs ( 640 dots )
	F - FRONT PORCH	0.316 μs ( 64 dots )	0.636 μs ( 16 dots )	0.508 μs ( 16 dots )
V	fV	75.0000 Hz	59.9405 Hz	75.0000 Hz
	A - PERIOD	13.333 ms ( 1,250 lines )	16.683 ms ( 525 lines )	13.333 ms ( 500 lines )
	B - BLANKING TIME	0.533 ms ( 50 lines )	1.430 ms ( 45 lines )	0.533 ms ( 20 lines )
	C - SYNC WIDTH	0.032 ms ( 3 lines )	0.064 ms ( 2 lines )	0.080 ms ( 3 lines )
	D - BACK PORCH	0.491 ms ( 46 lines )	1.049 ms ( 33 lines )	0.427 ms ( 16 lines )
	E - ACTIVE TIME	12.800 ms ( 1,200 lines )	15.253 ms ( 480 lines )	12.800 ms ( 480 lines )
	F - FRONT PORCH	0.011 ms ( 1 lines )	0.318 ms ( 10 lines )	0.027 ms ( 1 lines )
SYNC POLARITY(H/V)		Positive / Positive	Negative / Negative	Negative / Negative

		RESERVATION	RESERVATION	RESERVATION
		MODE - 4	MODE - 5	MODE - 6
		800 × 600 (75)	1024 × 768 (75)	1024 × 768 (75)
DOT CLOCK		49.5000 MHz	78.7500 MHz	80.0000 MHz
H	fH	46.8750 kHz	60.0229 kHz	60.2410 kHz
	A - PERIOD	21.333 μs ( 1,056 dots )	16.660 μs ( 1,312 dots )	16.600 μs ( 1,328 dots )
	B - BLANKING TIME	5.172 μs ( 256 dots )	3.657 μs ( 288 dots )	3.800 μs ( 304 dots )
	C - SYNC WIDTH	1.616 μs ( 80 dots )	1.219 μs ( 96 dots )	1.200 μs ( 96 dots )
	D - BACK PORCH	3.232 μs ( 160 dots )	2.235 μs ( 176 dots )	2.200 μs ( 176 dots )
	E - ACTIVE TIME	16.162 μs ( 800 dots )	13.003 μs ( 1,024 dots )	12.800 μs ( 1,024 dots )
	F - FRONT PORCH	0.323 μs ( 16 dots )	0.203 μs ( 16 dots )	0.400 μs ( 32 dots )
V	fV	75.0000 Hz	75.0286 Hz	74.9266 Hz
	A - PERIOD	13.333 ms ( 625 lines )	13.328 ms ( 800 lines )	13.346 ms ( 804 lines )
	B - BLANKING TIME	0.533 ms ( 25 lines )	0.533 ms ( 32 lines )	0.598 ms ( 36 lines )
	C - SYNC WIDTH	0.064 ms ( 3 lines )	0.050 ms ( 3 lines )	0.050 ms ( 3 lines )
	D - BACK PORCH	0.448 ms ( 21 lines )	0.466 ms ( 28 lines )	0.498 ms ( 30 lines )
	E - ACTIVE TIME	12.800 ms ( 600 lines )	12.795 ms ( 768 lines )	12.749 ms ( 768 lines )
	F - FRONT PORCH	0.021 ms ( 1 lines )	0.017 ms ( 1 lines )	0.050 ms ( 3 lines )
SYNC POLARITY(H/V)		Positive / Positive	Positive / Positive	Negative / Negative

		RESERVATION	RESERVATION
		MODE - 7	MODE - 8
		MAC 1152 × 870 (75)	1280 × 1024 (75)
DOT CLOCK		100.0000 MHz	135.0000 MHz
H	f H	68.6813 kHz	79.9763 kHz
	A - PERIOD	14.560 μs ( 1,456 dots )	12.504 μs ( 1,688 dots )
	B - BLANKING TIME	3.040 μs ( 304 dots )	3.022 μs ( 408 dots )
	C - SYNC WIDTH	1.280 μs ( 128 dots )	1.067 μs ( 144 dots )
	D - BACK PORCH	1.440 μs ( 144 dots )	1.837 μs ( 248 dots )
	E - ACTIVE TIME	11.520 μs ( 1,152 dots )	9.481 μs ( 1,280 dots )
	F - FRONT PORCH	0.320 μs ( 32 dots )	0.119 μs ( 16 dots )
V	f V	75.0616 Hz	75.0247 Hz
	A - PERIOD	13.322 ms ( 915 lines )	13.329 ms ( 1,066 lines )
	B - BLANKING TIME	0.655 ms ( 45 lines )	0.525 ms ( 42 lines )
	C - SYNC WIDTH	0.044 ms ( 3 lines )	0.038 ms ( 3 lines )
	D - BACK PORCH	0.568 ms ( 39 lines )	0.475 ms ( 38 lines )
	E - ACTIVE TIME	12.667 ms ( 870 lines )	12.804 ms ( 1,024 lines )
	F - FRONT PORCH	0.044 ms ( 3 lines )	0.013 ms ( 1 lines )
SYNC POLARITY(H/V)		Negative / Negative	Positive / Positive

		ADJUSTMENT	ADJUSTMENT	ADJUSTMENT
		HV10S - 1	HV10S - 2	HV10S - 3
DOT CLOCK		22.5900 MHz	91.6240 MHz	160.6320 MHz
H	f H	29.1108 KHz	52.1777 KHz	75.2022 KHz
	A - PERIOD	34.351 μs ( 776 dots )	19.165 μs ( 1,756 dots )	13.297 μs ( 2,136 dots )
	B - BLANKING TIME	6.906 μs ( 156 dots )	4.235 μs ( 388 dots )	3.187 μs ( 512 dots )
	C - SYNC WIDTH	3.320 μs ( 75 dots )	1.746 μs ( 160 dots )	1.145 μs ( 184 dots )
	D - BACK PORCH	2.258 μs ( 51 dots )	1.768 μs ( 162 dots )	1.544 μs ( 248 dots )
	E - ACTIVE TIME	27.446 μs ( 620 dots )	14.931 μs ( 1,368 dots )	10.110 μs ( 1,624 dots )
	F - FRONT PORCH	1.328 μs ( 30 dots )	0.720 μs ( 66 dots )	0.498 μs ( 80 dots )
V	f V	47.4891 Hz	92.3499 Hz	137.2304 Hz
	A - PERIOD	21.057 ms ( 613 lines )	10.828 ms ( 565 lines )	7.287 ms ( 548 lines )
	B - BLANKING TIME	0.927 ms ( 27 lines )	0.556 ms ( 29 lines )	0.426 ms ( 32 lines )
	C - SYNC WIDTH	0.103 ms ( 3 lines )	0.057 ms ( 3 lines )	0.040 ms ( 3 lines )
	D - BACK PORCH	0.721 ms ( 21 lines )	0.479 ms ( 25 lines )	0.372 ms ( 28 lines )
	E - ACTIVE TIME	20.130 ms ( 586 lines )	10.273 ms ( 536 lines )	6.861 ms ( 516 lines )
	F - FRONT PORCH	0.103 ms ( 3 lines )	0.019 ms ( 1 lines )	0.013 ms ( 1 lines )
SYNC POLARITY(H/V)		Negative / Negative	Negative / Negative	Negative / Negative

		ADJUSTMENT
		HV10S - 4
DOT CLOCK		230.1100 MHz
H	f H	96.5227 KHz
	A - PERIOD	10.360 μs ( 2,384 dots )
	B - BLANKING TIME	2.694 μs ( 620 dots )
	C - SYNC WIDTH	0.834 μs ( 192 dots )
	D - BACK PORCH	1.495 μs ( 344 dots )
	E - ACTIVE TIME	7.666 μs ( 1,764 dots )
	F - FRONT PORCH	0.365 μs ( 84 dots )
V	f V	182.1182 Hz
	A - PERIOD	5.491 ms ( 530 lines )
	B - BLANKING TIME	0.363 ms ( 35 lines )
	C - SYNC WIDTH	0.031 ms ( 3 lines )
	D - BACK PORCH	0.321 ms ( 31 lines )
	E - ACTIVE TIME	5.128 ms ( 495 lines )
	F - FRONT PORCH	0.010 ms ( 1 lines )
SYNC POLARITY(H/V)		Negative / Negative

#### 5.4 Acceptable timing

- If your timing is within following specification, this CRT display can automatically function with a certain size and position.

Horizontal: Sync frequency: 30.0 ~ 92.0 kHz  
Blanking Time:  $\geq 2.7 \mu\text{s}$   
Back Porch:  $\geq 1.25 \mu\text{s}$   
Front Porch:  $\leq$  Back Porch  
Sync Width :  $0.948 \sim 4.0 \mu\text{s} (f_H < 50\text{kHz})$   
 $0.948 \sim 2.5 \mu\text{s} (f_H > 50\text{kHz})$

Vertical: Sync frequency: 50.0 ~ 180.0 Hz  
Blanking Time:  $\geq 0.5 \text{ ms}$   
Back Porch:  $\geq 0.4 \text{ ms}$   
Sync Width:  $\geq 0.032 \text{ ms}$

- Several items like size, position and distortion can be adjusted through OSD menu, and if you want to keep it, please push the key  $\square$  for memory, or keep the key untouched for about 20 seconds, it is automatically memorized.

NOTE : In case of RECALL, the key is untouched for about 30 seconds, RECALL function will be cancelled.

Please note, however, that there is the case you can not get the size and/or position you want, (for example, in case Display video Time is too short, you can't get bigger size of the image.)

- The CRT adopted in this CRT display is designed to minimize the moire phenomenon at suitable size for typical display modes. However, there might be a display format among many formats, in which the moire phenomenon appears on this display.

#### 5.5 Signal level and input impedance

##### 5.5.1 Video Signal level

- This CRT display is adjusted at the factory using 0.7Vpp Video Signal. Black level is 0 V.
- This CRT display is compatible with 1.0Vpp Video signal by using Video input level selection.

##### 5.5.2 Sync Signal level

- H/V Separate, H/V Mixed : TTL level
- Sync on Green : 0.3 V p-p  $\pm 0.015\text{V}$

##### 5.5.3 Input impedance

- Video input:  $75 \Omega$
- Sync input:  $\geq 1 \text{ k}\Omega$

#### 5.6 Display performance

##### 5.6.1 Display area

###### 1) PRESET TIMING

MODE 1, 1024 × 768 @75Hz  
WIDTH :  $392 \text{ mm} \pm 5 \text{ mm}$   
HEIGHT :  $294 \text{ mm} \pm 5 \text{ mm}$

###### 2) RESERVATION TIMING

MODE 2, 640 × 480 @60Hz  
WIDTH :  $392 \text{ mm} \pm 7 \text{ mm}$   
HEIGHT :  $294 \text{ mm} \pm 7 \text{ mm}$

MODE 3, 640 × 480 @75Hz  
WIDTH :  $392 \text{ mm} \pm 7 \text{ mm}$

HEIGHT :  $294 \text{ mm} \pm 7 \text{ mm}$

MODE 4, 800 × 600 @75Hz

WIDTH :  $392 \text{ mm} \pm 7 \text{ mm}$

HEIGHT :  $294 \text{ mm} \pm 7 \text{ mm}$

MODE 5, 832 × 624 @75Hz

WIDTH :  $392 \text{ mm} \pm 7 \text{ mm}$

HEIGHT :  $294 \text{ mm} \pm 7 \text{ mm}$

MODE 6, 1024 × 768 @75Hz

WIDTH :  $392 \text{ mm} \pm 7 \text{ mm}$

HEIGHT :  $294 \text{ mm} \pm 7 \text{ mm}$

MODE 7, 1152 × 870 @75Hz

WIDTH :  $392 \text{ mm} \pm 7 \text{ mm}$

HEIGHT :  $294 \text{ mm} \pm 7 \text{ mm}$

MODE 8, 1280 × 1024 @75Hz

WIDTH :  $368 \text{ mm} \pm 7 \text{ mm}$

HEIGHT :  $294 \text{ mm} \pm 7 \text{ mm}$

###### 3) FULL SCAN

WIDTH : 406 mm

HEIGHT : 304 mm

##### 5.6.2 Centering

###### 1) PRESET TIMING (MODE1)

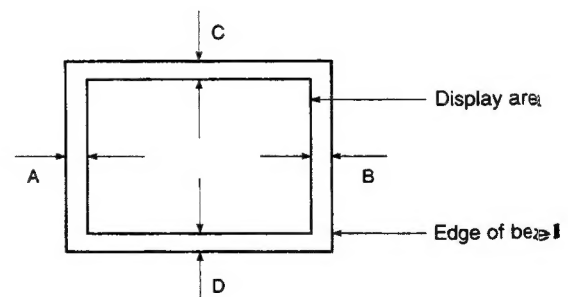
IA - BI  $\leq 4 \text{ mm}$

IC - DI  $\leq 4 \text{ mm}$

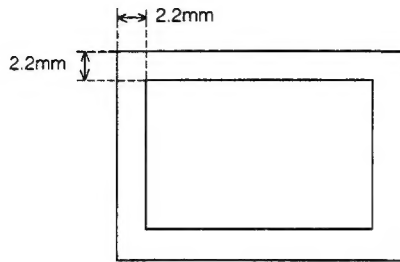
###### 2) RESERVATION TIMING (MODE2~8)

IA - BI  $\leq 7 \text{ mm}$

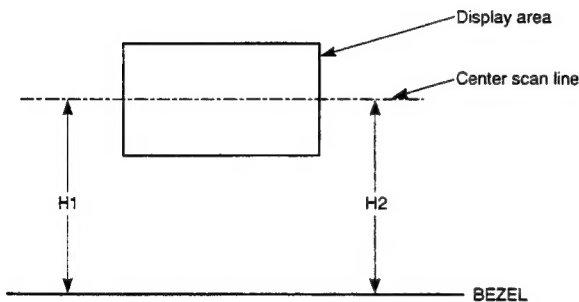
IC - DI  $\leq 7 \text{ mm}$



### 5.6.3 Distortion Inside 2.2 mm Frame



### 5.6.4 Rotation $|H1 - H2| \leq 2.5 \text{ mm}$



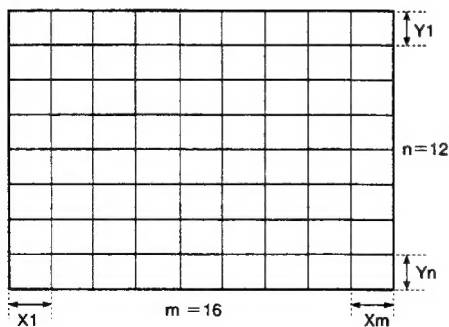
### 5.6.5 Linearity

Horizontal linearity

$$= \frac{X_{\text{max.}} - X_{\text{min.}}}{X_{\text{max.}} + X_{\text{min.}}} \times 100\% \leq 7\%$$

Vertical linearity

$$= \frac{Y_{\text{max.}} - Y_{\text{min.}}}{Y_{\text{max.}} + Y_{\text{min.}}} \times 100\% \leq 6\%$$



### <Conditions>

Display image ----- crosshatch pattern

Maximum and minimum values should not be adjacent to each other.

X max. is maximum value among X1~Xm

X min. is minimum value among X1~Xm

Y max. is maximum value among Y1~Yn

Y min. is minimum value among Y1~Yn

### 5.7 General performance

#### 5.7.1 Maximum Pixel Clock

196MHz (Typ.)

#### 5.7.2 Maximum luminance

Value	95 cd/m <sup>2</sup> (Typ.) for 5% white field at the center of the display area. 85 cd/m <sup>2</sup> (Typ.) for 100% white field at the center of the display area. Specified by 9300 K + 8 MPCD
Conditions	Display image : White full flat field Luminance : Max. (Contrast : Max.) (Brightness : CENTER point)

#### 5.7.3 Minimum luminance

Value	$\leq 17 \text{ cd/m}^2$ at the center of the display area. Specified by 9300 K + 8 MPCD
Conditions	Display image : White full flat field Luminance : Min. (Contrast : Min.) (Brightness : CENTER point)

#### 5.7.4 Brightness variation

Value	75 % (Min.) Variation = C/A X 100
Conditions	Display image : White full flat field Luminance : MAX (Contrast : MAX) (Brightness : Center point) A ; Luminance at center position C ; Luminance at position of lowest brightness

#### 5.7.5 Display area regulation

	Display area variation	Range of variation
Due to Luminance	within 1.0 %	17~95 cd/m <sup>2</sup> (white flat field)
Due to Power Supply	within 0.5 %	AC : 90 - 132 V or 198 - 264 V
Due to Temperature	within 1.5 %	20° C ± 20° C

#### 5.7.6 Color Point

< Conditions >

Display image : White flat field at the center of the display area.

Luminance : Brightness Center point.

Contrast	max	min
Value	9300 K + 8 MPCD x = 0.283 ± 0.020 y = 0.298 ± 0.020	9300 K + 8 MPCD x = 0.283 ± 0.020 y = 0.298 ± 0.020

< Conditions >

Display image : 5% White flat field at the center of the display area.

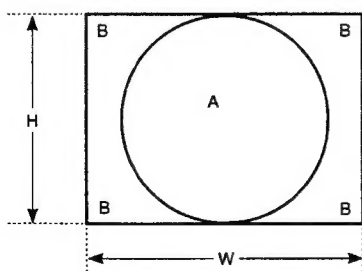
Luminance : Brightness Center point ,  
Contrast max

Contrast	7500K	6500K	5000K
Value	x = 0.300(Typ.) y = 0.315(Typ.)	x = 0.313(Typ.) y = 0.329(Typ.)	x = 0.346(Typ.) y = 0.359(Typ.)

#### 5.7.7 Misconvergence

Center area of display (A) : 0.3 mm (Max.)

Corner area of display (B) : 0.4 mm (Max.)



<Conditions>

Display image : Crosshatch pattern mixed with R, G and B colors.

Convergence gauge : KLEIN CM7AG or equivalent.

Display area : W x H 392 x 294 mm

#### 5.7.8 White Uniformity

$x_a - x_c \leq \pm 0.015$

$x_a$  : x coordinate at the CRT center

$x_c$  : x coordinate at any other point

$y_a - y_c \leq \pm 0.015$

$y_a$  : y coordinate at the CRT center

$y_c$  : y coordinate at any other point

<Conditions>

Display image : White flat field

Luminance : 95 cd/m<sup>2</sup> at the center of display area

Display area : 392 x 294 mm

#### 5.7.9 Purity

Conspicuous mislanding shall not be visible within display area at a distance of 60cm from CRT surface.

<Conditions>

Display image : Red/Green/Blue flat field

Luminance : Contrast max,  
Brightness CENTER

Display area : 392 x 294 mm

#### 5.7.10 Jitters

Invisible at a distance of 60 cm from CRT surface.

## 6. ENVIRONMENTS

### 6.1 Ambient temperature, humidity and altitude

	Operating	Storage and shipment
Temperature	0 ~ 40° C (32 ~ 104° F)	-20 ~ +60° C (-4 ~ 140° F)
Humidity	5 ~ 90 % *	5 ~ 90 % *
Altitude	3,000 m (Max.) (10,000 ft)	12,000 m (Max.) (40,000 ft)

\* Non-condensation

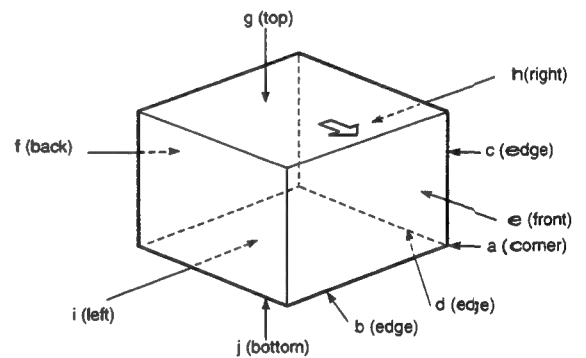
## 6.2 Vibration and shock

### 6.2.1 Vibration

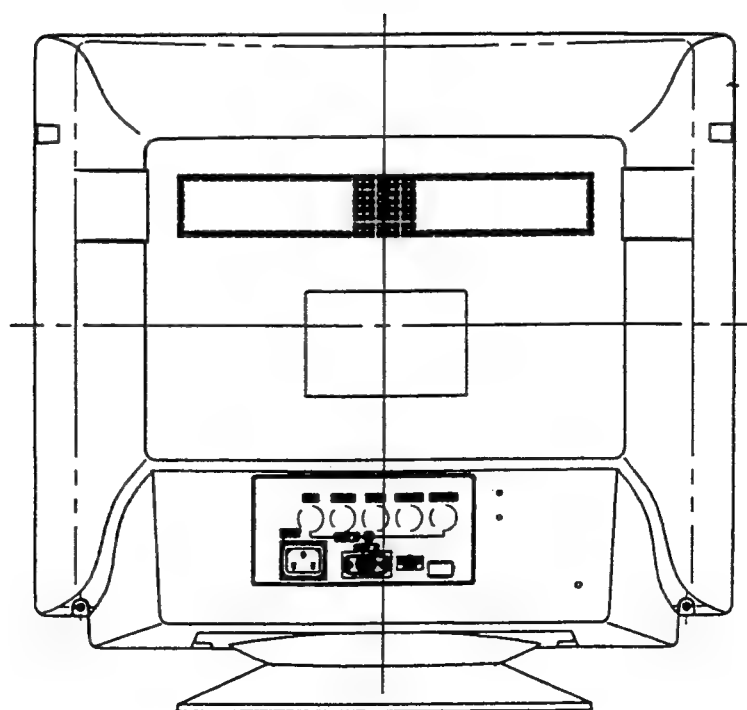
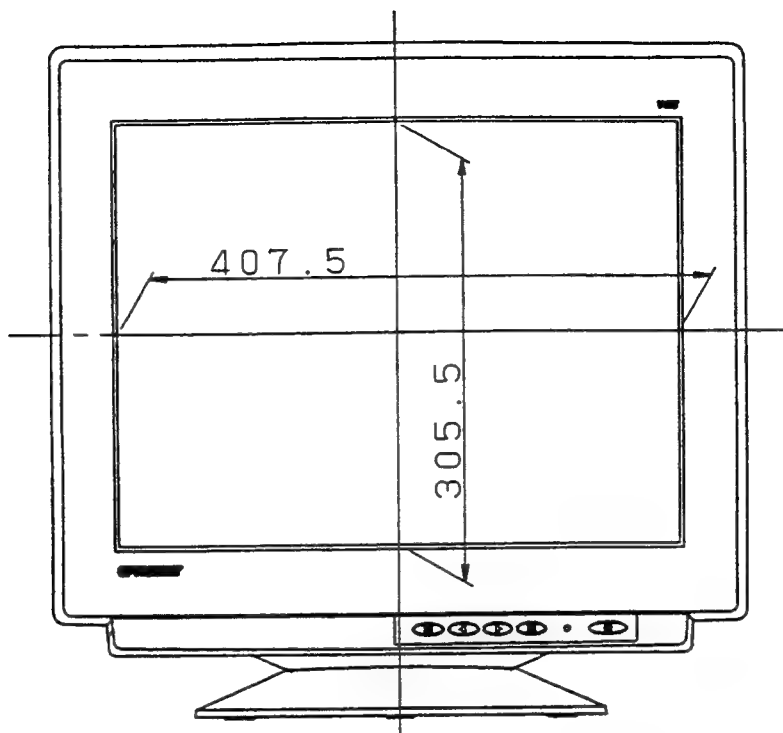
	Order of tests	Direction of vibration		Acceleration		Frequency	Sweep	Test time
				Non-operation	Storage and shipment			
Unpacked	1	Vertical	Up to down	2.9 m/s <sup>2</sup> (0.3 G)		5 - 55 Hz	120 s	30 min.
	2	Horizontal	Front to back					15 min.
	3		Right to left					
Packed	1	Vertical	Up to down		10m/s <sup>2</sup> (1.0 G)	5 - 50 Hz	810s (LogswEEP)	40 min.
	2	Horizontal	Front to back	5m/s <sup>2</sup> (0.5 G)	20 min.			
	3		Right to left					

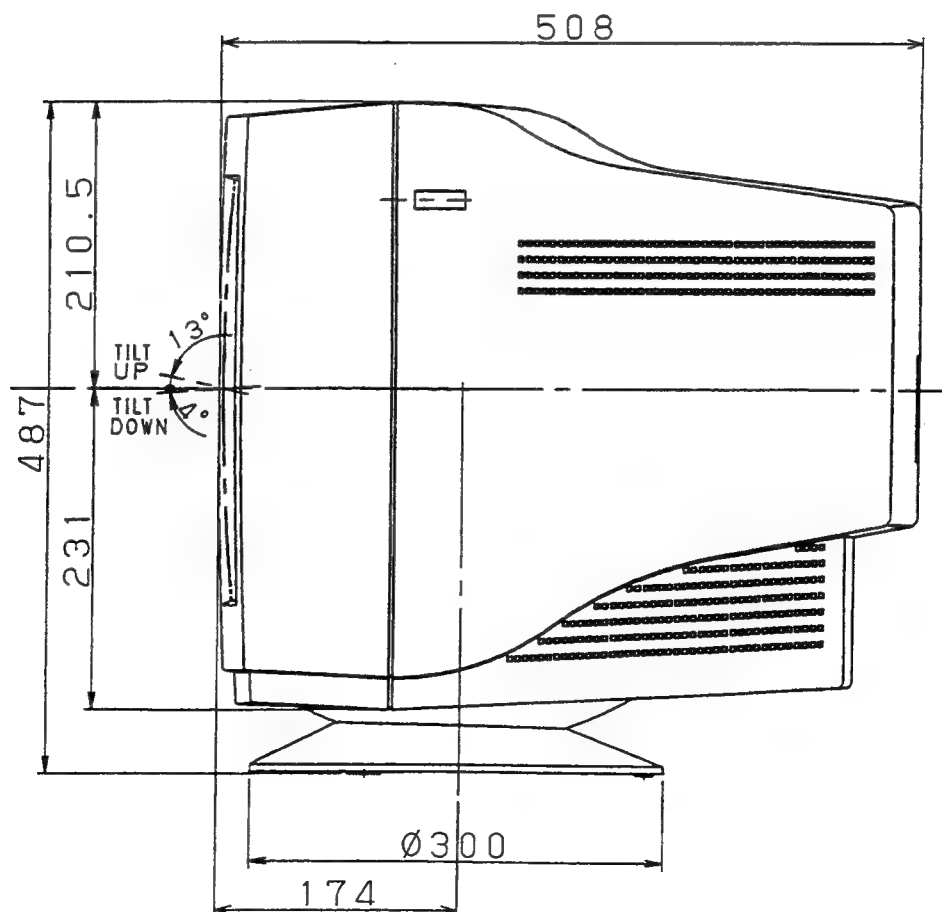
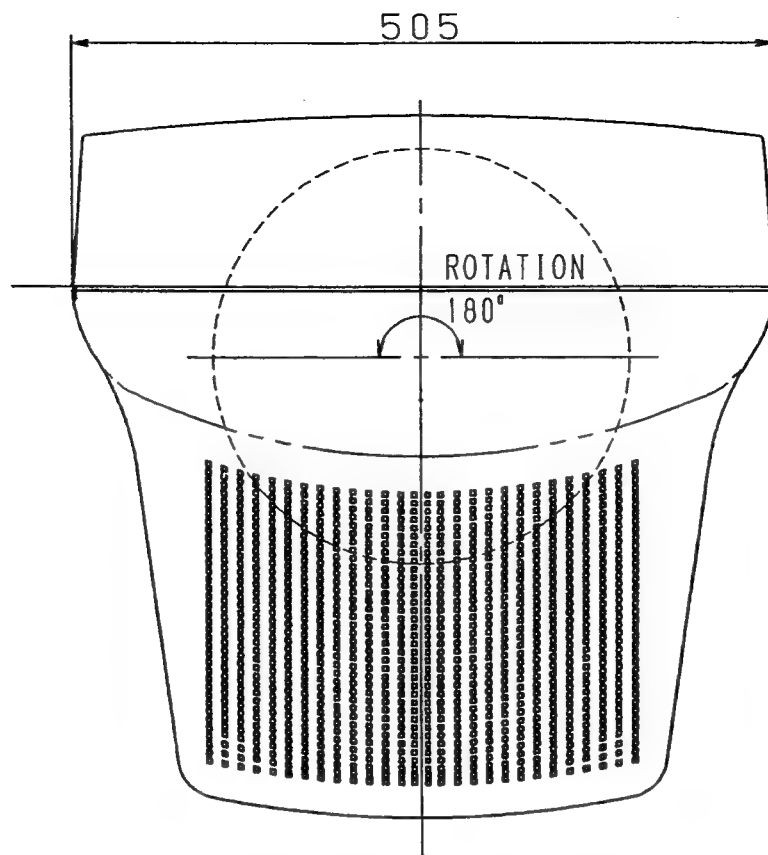
### 6.2.2 Shock (Drop test)

Unpacked	20 G One time for each face (6 faces) (non-operation)			
Packed	Order of drop	Face to drop is to face the floor. (See the figure)	Height	Number of drop
	1	A, B, C, D, E, F, G, H, I	31 cm	1 time for each
	2	J	50 cm	



## DIMENSIONS



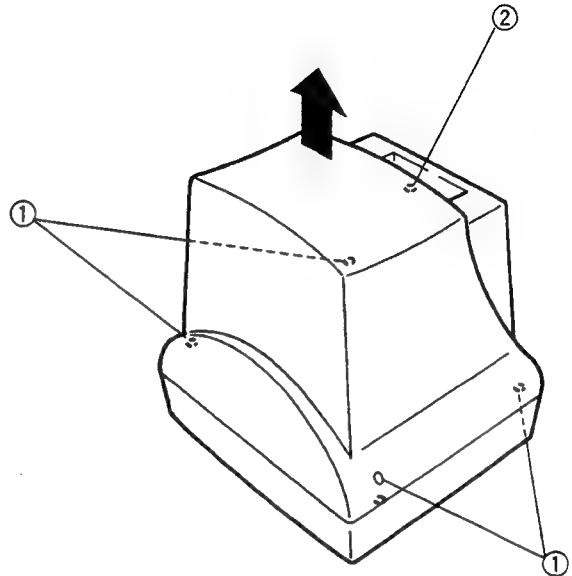
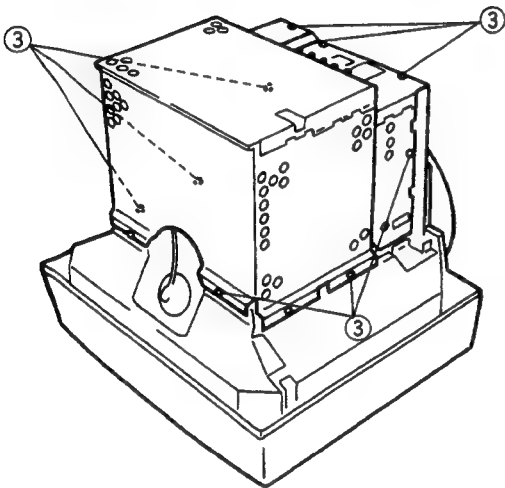


## DISASSEMBLY INSTRUCTIONS

### 1. Rear cover removal

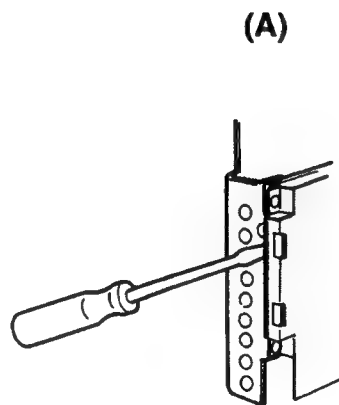
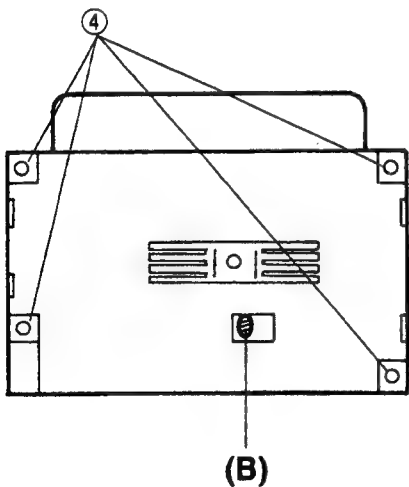
*Note: Spread a mat underneath to avoid damaging the CRT surface.*

- 1) Remove four large screws ① and small screw ② from the rear cover.
- 2) Remove the cover.
- 3) Remove nine screws ③ from the shield case.
- 4) Remove the shield case.

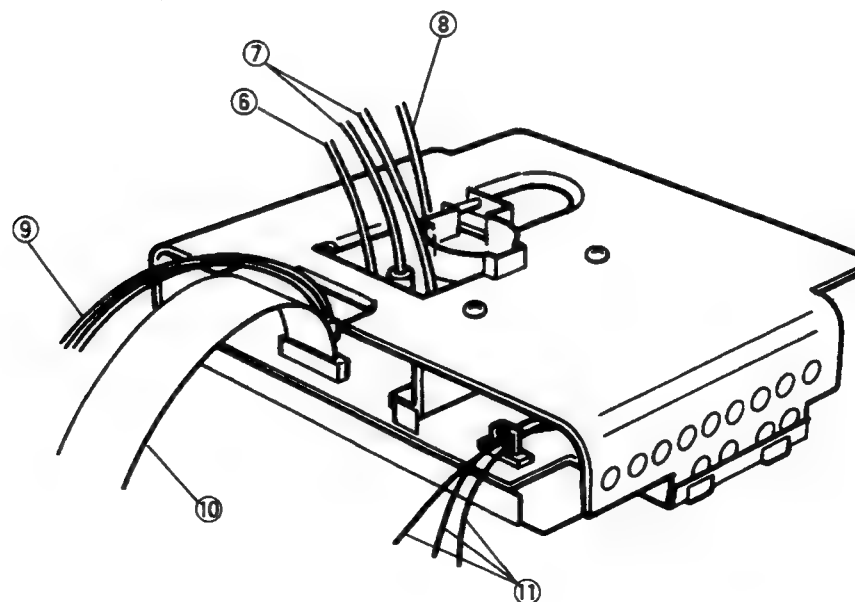
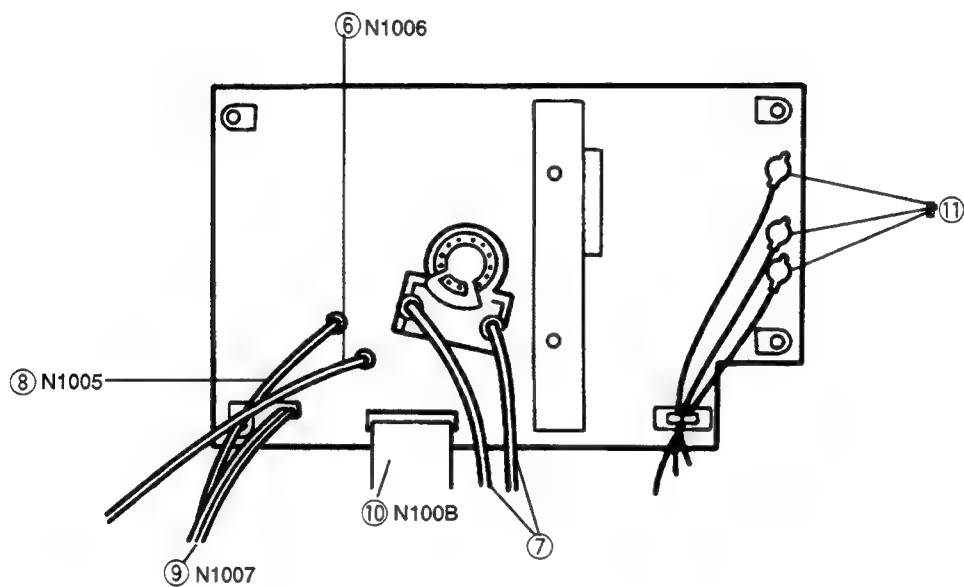
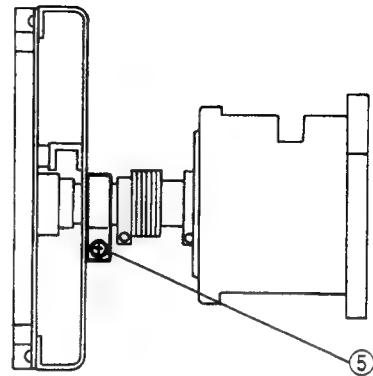


### 2. Video PCB removal

- 1) Remove four screws ④ securing the shield cover.
- 2) Desolder (B) and Remove the shield cover (A).

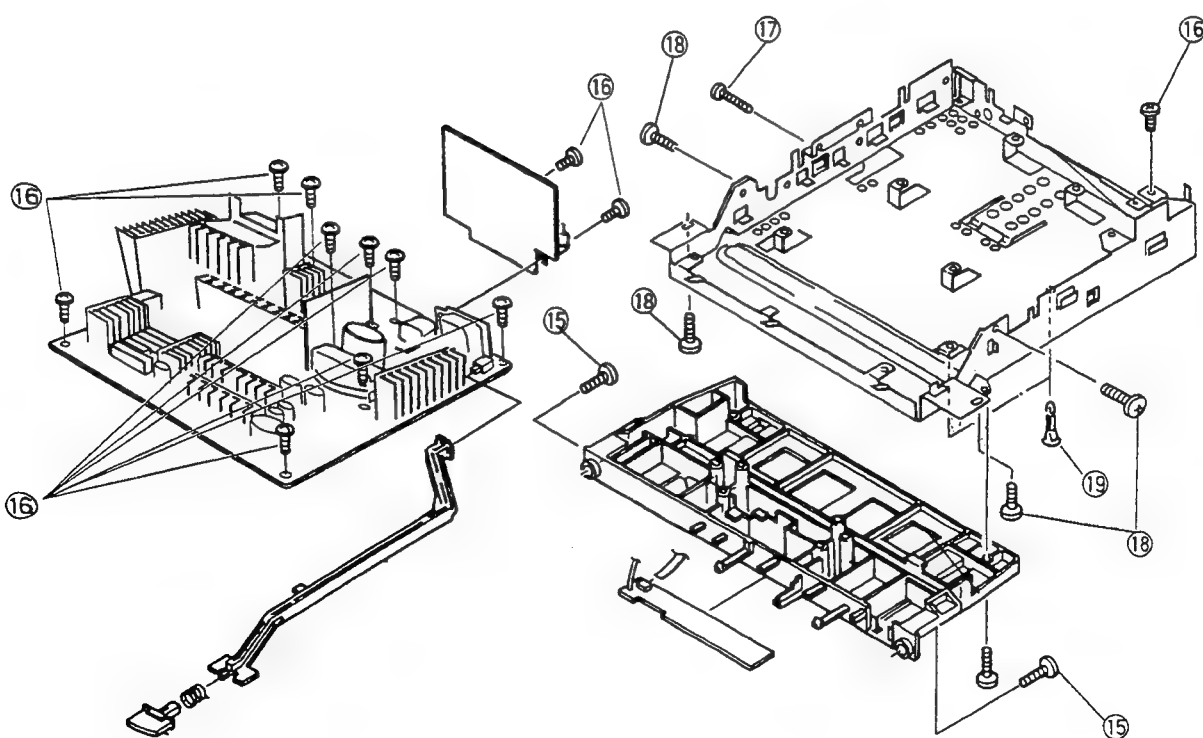
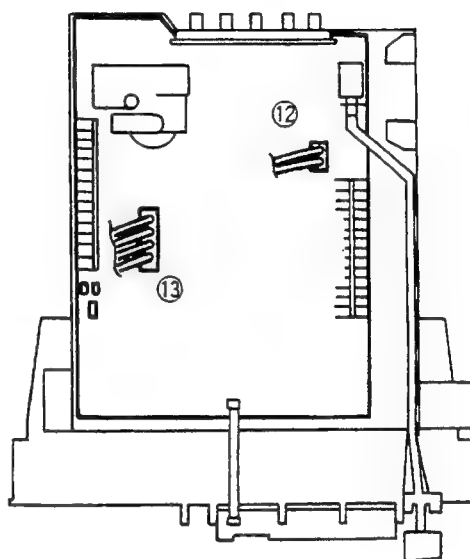
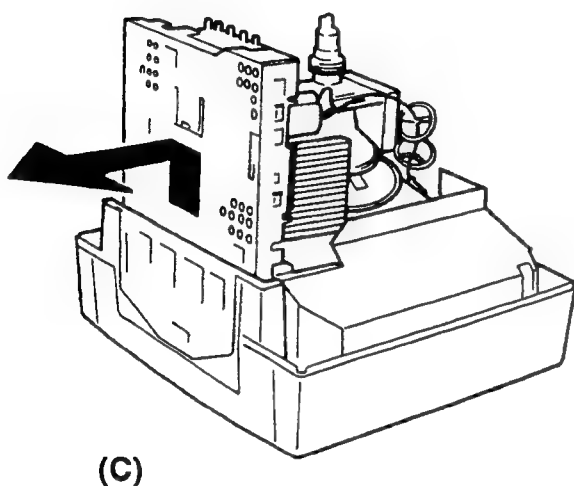


- 3) Loosen the screw ⑤ securing the CRT neck and the shield case.
- 4) Remove the PCB block from the CRT.
- 5) Remove the N1006 connector ⑥.
- 6) Remove two focus leads ⑦.
- 7) Remove ground connector ⑧ (N1005) connected to the PCB.
- 8) Remove N1007 connector ⑨.
- 9) Remove N100B connector ⑩.
- 10) Remove RGB connector ⑪.
- 11) Remove the PCB from the shield case.



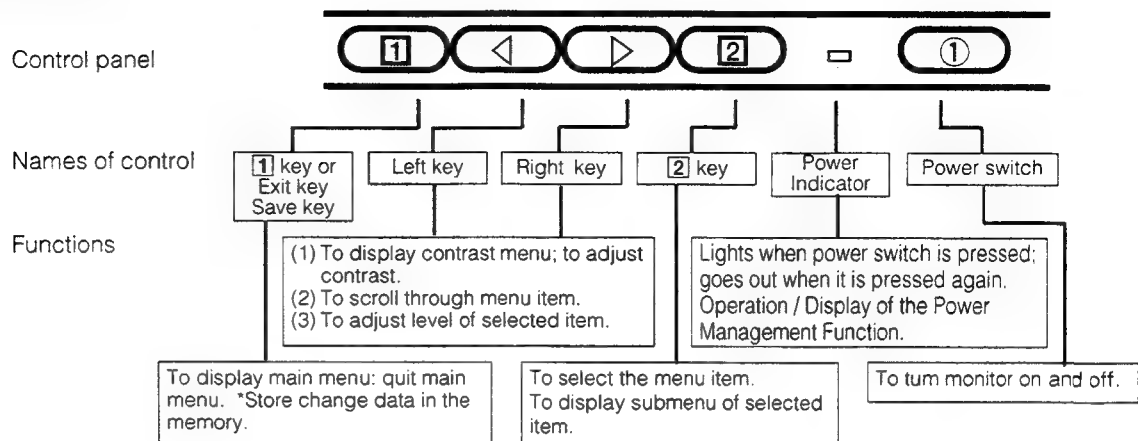
### 3. Main PCB Removal

- 1) Remove the connector ⑫ (N901) of the degauss coil.
- 2) Remove the DY connector ⑬.
- 3) Remove the anode cap.
- 4) Move the CRT face down and remove two screws ⑮ securing the bottom fitting metal.
- 5) Remove the fitting metal and the PCB from the cabinet. (C)
- 6) Remove thirteen screws ⑯ securing the fitting metal and PCB.
- 7) Remove screws ⑰ securing the fitting metal and PCB.
- 8) Remove four screws ⑱ securing the fitting metal and PCB.
- 9) Remove two clamps ⑲ the fitting metal and PCB.
- 10) Remove the PCB with the figure referenced.



## CONTROL LOCATION

### [Basic operation]

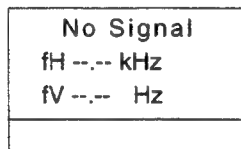


- For a detailed description of the functions of the 1 key, left key, right key, and 2 key.
- \* Since contrast is the most commonly adjusted parameter, we have provided direct access to this menu item.

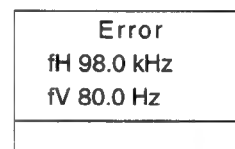
### Adjustments

#### Self-Test menu(No Signal screen)

This display indicates that the monitor is operating normally. When one of the following conditions occurs, press one of the 4 operation keys to call the appropriate display.



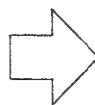
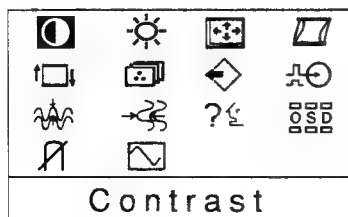
No signal ( The computer is not connected or the mains power to the computer is disconnected )



The horizontal sync. signal are outside of the permitted range ( the value of the horizontal sync. signal will be displayed in red and the value of the vertical sync. signal will be displayed in white )

#### Select menu

The adjusted items are represented by icons. When the 1 key is pressed, the menu screen appears. Use the Left or Right keys to move the cursor to the item to be adjusted, then press the 2 key to call the adjustment menu.



1	Contrast Adjustment
☀	Brightness Adjustment
⊞	Size & Position adjustment
⏮	H.Position
⏭	H.Size
⏮	V.Position
⏭	V.Size
▭	Geometry adjustment
⏮	V.pincushion
⏭	Side Pin. Bal.
⏮	Trapezoid
⏭	Parallelogram
⏮	Rotation
⏭	Color temp
⏮	Recall
⏭	Video input level
⏮	H. Moire reduction
⏭	V. Moire reduction
⏮	Language
	OSD screen position
⏮	Degauss
⏭	Select

## CAUTION FOR ADJUSTMENT AND REPAIR

1. Degaussing is inevitably required at purity adjustment or convergence adjustment.
2. If you check or adjust electrical specification or function, more than 20 minutes burn-in is required.
3. Reforming of the lead wire is required after your repair work.
4. Prior to starting work, be sure to check that the input signal is at the specified timing and that the polarity is as specified in all modes.
5. Brightness control: After mounting the rear cover, brightness tends to decrease about 5 cd/m<sup>2</sup> on a flat white field and about 1 cm/m<sup>2</sup> on a white raster field. This should be taken into consideration.
6. Brightness stabilizing time: It takes about 20 to 50 seconds for the brightness to stabilize after turning the power off for 5 seconds (AC). Therefore, care should be taken to this.
7. Aging should be made in white raster of 30 ~ 50 cd/m<sup>2</sup> and raster size, 402 x 301 mm before adjusting the ITC.
8. Set the CONTRAST to MAX and BRIGHTNESS to CENTER using the O.S.D.

## CAUTION FOR SERVICING

When servicing or replacing the CRT, high voltage sometimes remains on the anode. So, completely discharge high voltage before servicing or replacing the CRT so as to prevent a shock to the service person.

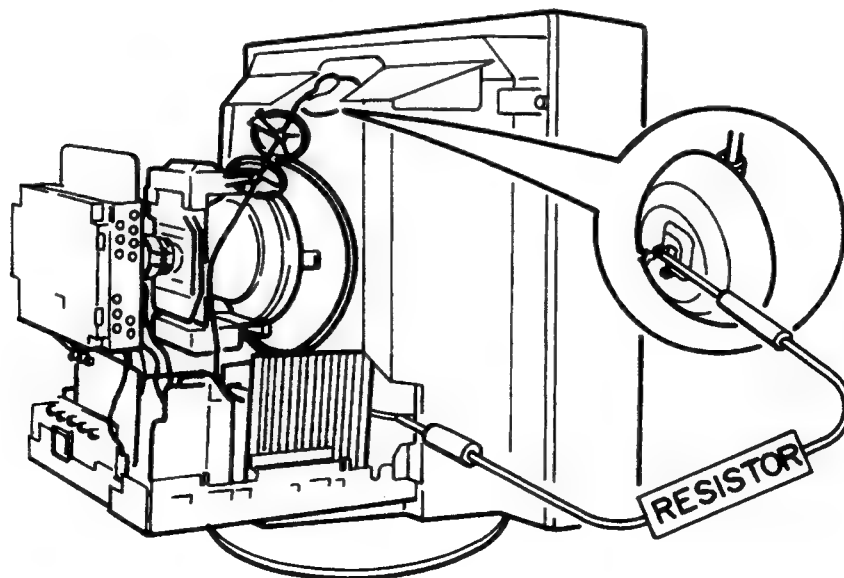
### CRT Anode Discharge

1. When you check the CRT anode or replace the CRT, discharge the CRT anode to the external conductive coating (aquadag) of CRT, especially when checked right after power turn-off.
2. Ground one end of a jumper wire which has a resistor (30 kV < resisting pressure 100 MΩ) and connect the other point to the CRT anode.

**Note:** Grounding must be done first.

This model has a section that does not share a common ground with the power supply section. The different sections are referred to as the HOT section and the COLD section in the precautions below.

1. Do not touch the HOT section and the COLD section at the same time. You may be hit by an electric shock.
2. Do not short the HOT section to the COLD section. This could blow the fuse or damage parts.
3. Never measure the HOT section and the COLD section at the same time when using tools such as oscilloscopes or multimeters.
4. Always unplug the unit before beginning any operation such as removing the chassis.



# ADJUSTMENT AND CHECK PROCEDURE

## INTRODUCTION

- This monitor is controlled by a microcomputer. With the exception of purity/convergence/focus all is digitally adjusted. Therefore a computer, the dedicated control software, the dedicated interface, a 9~12 V power supply, and a signal generator are required servicing.

## TOOLS REQUIRED

- Computer**  
The control software is IBM PC compatible only. Therefore, it is not compatible with any other operating systems. For further information please contact our sales office.
- Control Software**  
The HV10S chassis can only use adjustment program disk" for this model. No other program can access the EEPROM on the monitor. For further information please contact our sales office.

## Interface

The interface is dedicated to work only with the control software and the HV chassis. There are no substitutes for this interface. For further information please contact our sales office.

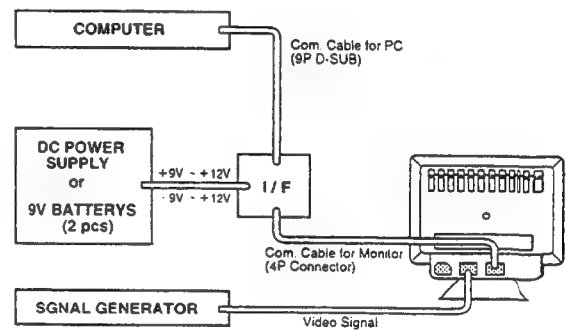
## Power Supply

A DC 9~12 V (+9~12 V/-9~12 V) power supply is required for operating the interface.

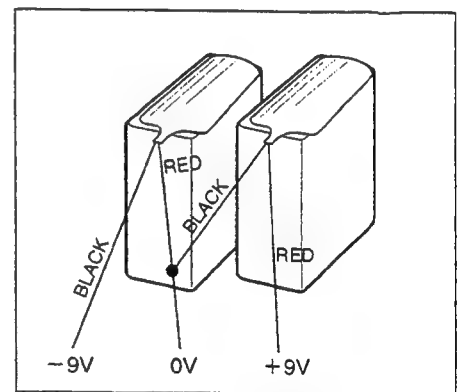
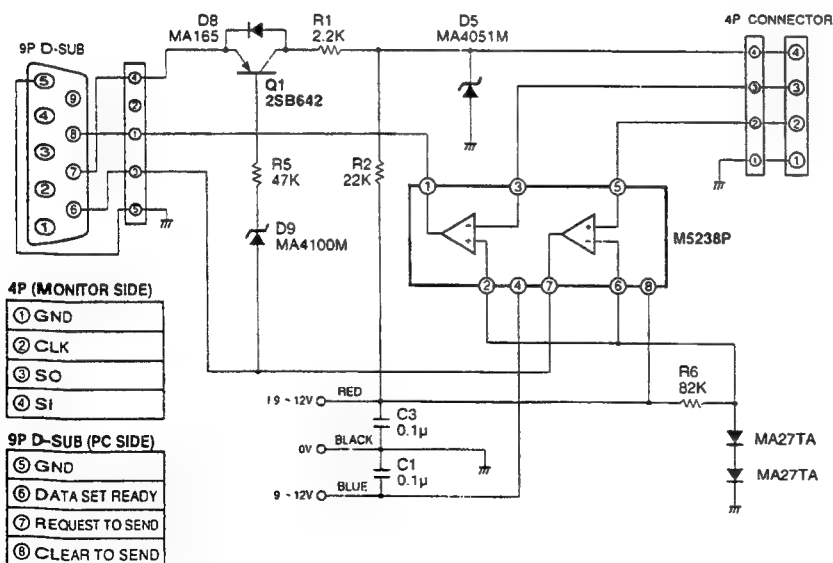
## Signal Generator

It is necessary for you to use a signal generator which operates on fh 95 kHz, fv 180 Hz, and fc 196 MHz bands.

## INTERFACE CONNECTION



## INTERFACE SCHEMATIC DIAGRAM



BATTERY CONNECTION

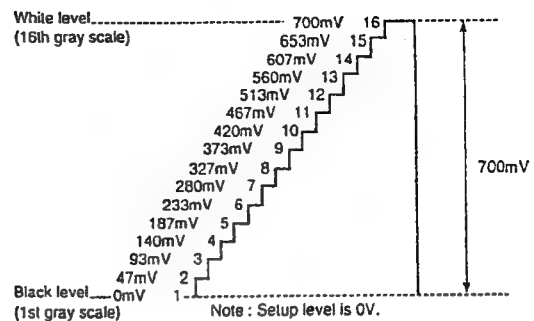
## OTHER TOOLS

- Oscilloscope (dual trace)
- Scope probe – Attenuation: 100:1  
Attenuation: 10:1
- Digital Voltmeter – Range: 0 to 1000 V DC  
Accuracy: 0.1 %
- TV color Analyzer II – that reads luminance and chromaticity X and Y coordinates.
- High Voltag Probe
- AC power supply – Output voltage : 0 to 300 V
- Degaussing coil
- Convergence meter
- Scale
- Microscope – Scale factor: 50

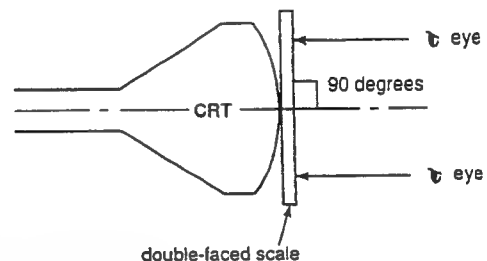
## STANDARD CONDITION OF ADJUSTMENT PROCEDURE

- Signal timing : Preset timing
- Display pattern : White, full "H" character
- Signal level : V/H: TTL level video: 700 mV
- Input source : AC 100~240 V, 50/60 Hz
- Ambient temperature : Room temperature
- Warm-up time : More than 30 minutes
- Brightness control : Center
- Contrast control : Max.
- Magnetic field : Vertical: 40  $\mu$ T  
Horizontal: 0  $\mu$ T
- Signal cable : Attached

Video input signal from PC.



- Use a Helmholtz device to adjust an unit with no horizontal magnetic field and a vertical field of 40  $\mu$ T. Inspect the unit under the same conditions.
- The ambient illuminance must be 200 lux.
- Use an external degaussing coil any time the DEGAUSS switch does not remove color shading.
- To check the image width, height, linearity and distortion, proceed as below.



## ADJUSTMENT SOFTWARE

### 1. Software operating procedure

- Power on the computer.
- Connect the Communication cable for monitor adjustment.
- Insert the adjustment disk into the drive.
- At the A:> prompt type "VSR", then press [ENTER].

A function to identify the connected monitor is provided to prevent accidents due to erroneous use of the HV10S chassis program. If this program is used for any monitor other than the HV10S, the message reading "This monitor is not an HV10S chassis. All further activity has been prevented" is displayed and the operation is stopped.

- Refer to the adjustment procedures.

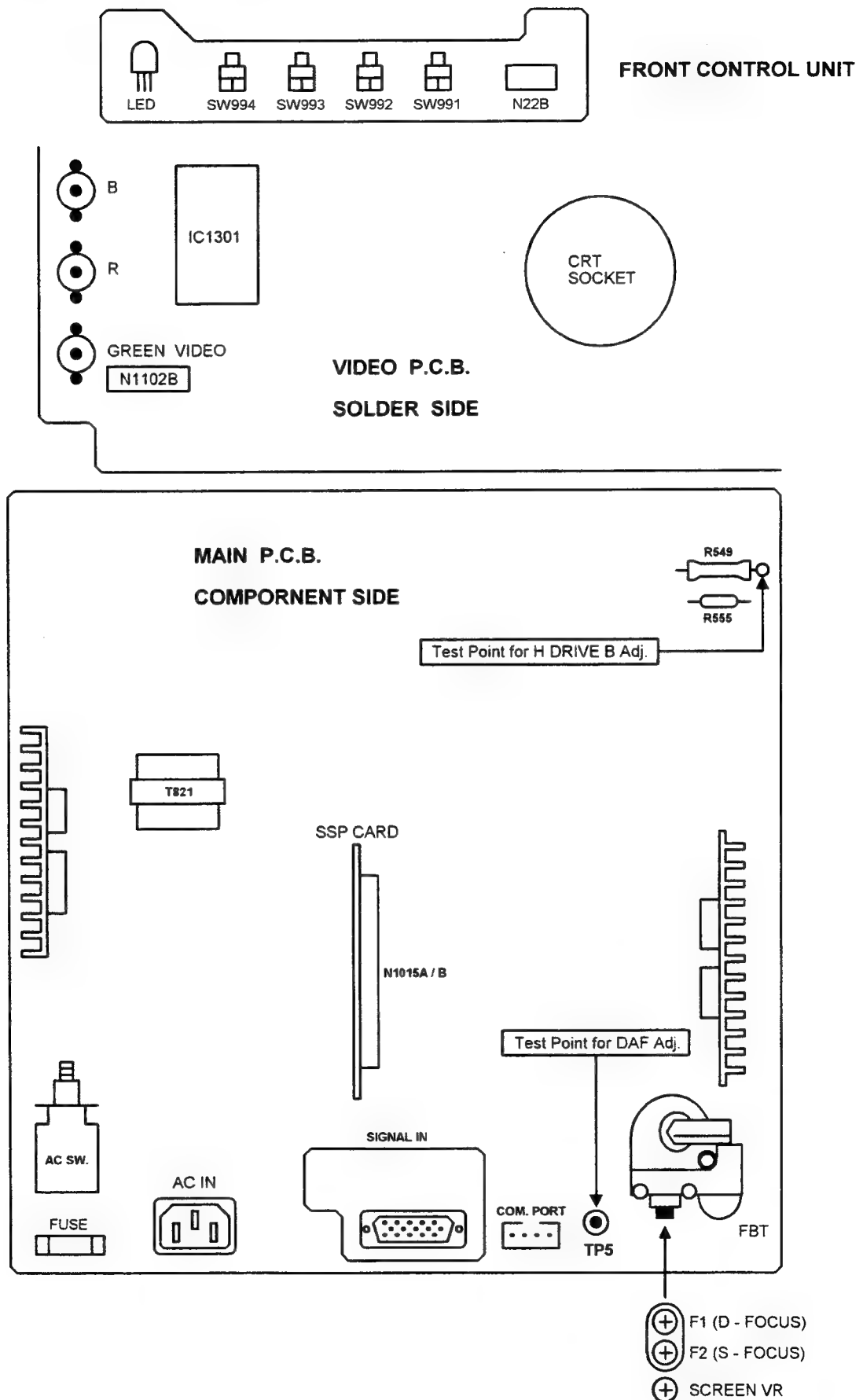
### 2. Adjustment Program

Main Menu of Adjustment Program

```
<<HV10S ADJUSTMENT PROGRAM MENU>>
(e: exit, q: quit) <Ver *.*>

1) Load data from FILE      6) Save data to FILE
2) Adjust VSR setting        7) Special ADJUST
3) Adjust STD setting        8) Information Service
4) Adjust Factory preset    9) Show Version & Error
5) Clear User preset        10) DDC EDID Date setting
```

## SERVICE ADJUSTMENT CONTROL LOCATION



# REQUIRED ADJUSTMENT PROCEDURE AFTER A PARTS IS REPLACED (✓ IS REQUIRED)

ADJUSTMENT ITEM		REPLACED PARTS									
		MAIN P.C.B.	SSP CARD	VIDEO P.C.B.	CRT DY	IC1301 IC1302 IC1303 IC1305 IC1331	Q1065 Q1165 Q1265	IC490	IC580	Q550 IC850 Q881	FBT IC671 Q601
A	DATA SETTING *	✓	✓								
B	H. DRIVE +B ADJUST	✓	✓						✓		
C	EHT ADJUST	✓	✓		✓					✓	
D	H CENTER ADJUST	✓	✓		✓					✓	
E	SUB ADJUST	✓	✓		✓			✓		✓	
F	VSR SETTING	✓	✓		✓			✓		✓	
G	PRESET ADJUST	✓	✓		✓			✓		✓	
H	BRIGHTNESS, COLOR	✓	✓	✓	✓	✓	✓			✓	
I	DAF ADJUST	✓	✓		✓					✓	
J	FOCUS ADJUST	✓	✓		✓					✓	
K	DATA SAVING	✓	✓	✓	✓	✓	✓	✓	✓	✓	
L	DDC DATA SETTING	✓	✓								
	PURITY & CONVERGENCE				✓						
	SCREEN CHECK	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

\* (A) DATA SETTING : Do not load standard data except when main PCB and SSP Card are replaced.

## ADJUSTMENT PROCEDURE

Note 1 : Check to be sure that the program disk name is **V115-2** before making necessary adjustment.

Note 2 : Unless otherwise specified, the monitor state is as given at right.

Note 3 : The underlined places indicate the adjustment items on the screen of the PC.

### 1. Description of Adjustment Method

ITEM Program Menu		◇ Test Meter ▼ Test Point □ Pattern	JOB CODE	Input Signal	Operation	Adjusting Value
A	<b>STANDARD DATA SETTING</b> 1) Load data from FILE		A1		Turn on the power switch of the monitor.	
			A2		Set the cell to the menu at left and press [↵].	
			A3		A message <b>FILE → EEPROM FILE NAME (q or Q escape) [ ] :</b> is displayed. So key in the DACDATA.DAT (when using the standard data) and press [↵].	
			AE		Turn off the power switch of the monitor, then turn on again.	
<div>Do not load standard data except when Main P.C.B. and SSP Card are replaced.</div>						
B	<b>H. DRIVE +B</b> 2) Adjust VSR setting	◇ Digital Voltmeter ▼ R549 ~ GND Refer to Service Adjustment Control Location for this connect point.  □ Crosshatch	B1		Set the cell to the menu at left and press [↵].	
			B2		Set the cell to the adjusting mode <u>INTP [0]</u> and press [↵].	
			B3	HV10S-1	Check that the input signal to the monitor is [fH 29.1KHz] and [fV 47.5Hz] and press [↵].	
			B4		Set the cell to <u>H. DRIVE +B</u> and press [↵].	
			B5		Make the adjustment to the value shown at right by using [←] and [→].	25.3V ±0.5V
			B6		Register by press [↵] and return to menu of <b>B2</b> by press [ E ].	
			B7	HV10S-2	Input signal [fH 52.2kHz] and [fV 92.3Hz]	
			B8		Select Adjusting mode <u>INTP [1]</u> , and repeat above ( <b>B4 B5 B6</b> ) procedure.	23.4V ±0.5V
			B9	HV10S-3	Input signal [fH 75.2kHz] and [fV 137.2Hz]	
			B10		Select Adjusting mode <u>INTP [2]</u> , and repeat above ( <b>B4 B5 B6</b> ) procedure.	21.4V ±0.5V
			B11	HV10S-4	Input signal [fH 96.5kHz] and [fV 182.1Hz]	
			B12		Select Adjusting mode <u>INTP [3]</u> , and repeat above ( <b>B4 B5 B6</b> ) procedure.	19.2V ±0.5V
			BE		Press [ E ] to return to main menu.	

ITEM Program Menu		◇ Test Meter ▼ Test Point □ Pattern	JOB CODE	Input Signal	Operation	Adjusting Value
C	<b>EHT ADJUST</b> 3) Adjust OTHER setting	◇ Digital Voltmeter ◇ High Voltage Probe ▼ Anode Cap ~ GND □ RGB off (Sync only)	C1	HV10S-4	Turn the power switch of the monitor OFF.	27kV ±0.3kV
	Adjust NON-VSR Setting		C2		Connect high voltage probe to Anode Cap and GND.	
			C3		Turn the power switch of the monitor ON.	
			C4		Set the cell to the menu at left and press [↵].	
			C5		Set the cell to <u>Adjust NON-VSR Setting</u> and press [↵].	
			C6		Check that the input signal to the monitor is [fH 96.5kHz] and [fV 182.1Hz] and press [↵].	
			C7		Move the cell to <u>EHT</u> and press [↵].	
			C8		Make adjustment to the value shown at right by using [←] and [→].	
			CE		Register by pressing [↵] and return to menu of C5, then return to the main menu by pressing [ E ].	
D	<b>H. CENTER</b> 2) Adjust VSR setting	□ RGB off (Sync only)	D1	HV10S-1	Set the Brightness to MAX by using OSD.	<div><div>A      A=B      B</div><div>Back raster</div></div> Set the raster to the center with respect to the bezel.
	D2		Set the cell to the menu at left and press [↵].			
	D3		Set the cell to the adjusting mode <u>INTP [0]</u> and press [↵].			
	D4		Check that the input signal to the monitor is [fH 29.1kHz] and [fV 47.5Hz] and press [↵].			
	D5		HV10S-2	Set the cell to <u>H CENTER</u> and press [↵].		
	D6			Make the adjustment to the value shown at right by using [←] and [→].		
	D7			Press [↵] to register, and return to menu of D3.		
	D8			Input signal [fH 52.2kHz] and [fV 92.3Hz]		
	D9		HV10S-3	Select Adjusting mode <u>INTP [1]</u> , and repeat above (D5 D6 D7) procedure.		
	D10			Input signal [fH 75.2kHz] and [fV 137.2Hz]		
	D11			Select Adjusting mode <u>INTP [2]</u> , and repeat above (D5 D6 D7) procedure.		
	D12		HV10S-4	Input signal [fH 96.5kHz] and [fV 182.1Hz]		
	D13			Select Adjusting mode <u>INTP [3]</u> , and repeat above (D5 D6 D7) procedure.		
	DE		Return to the main menu by pressing [ E ].			

ITEM Program Menu		◇ Test Meter ▼ Test Point □ Pattern	JOB CODE	Input Signal	Operation	Adjusting Value
E	<b>SUB ADJUST</b> 3) Adjust OTHER setting	□ Crosshatch	E1	Mode-1	Set the cell to the menu at left and press [↵], then go to sub menu.	②③④⑤⑥⑦⑧: Best point
	Adjust NON-VSR Setting		E2		Set the cell to <u>Adjust NON-VSR Setting</u> at the sub menu and press [↵].	
			E3		Check that the input signal to the monitor is [fH 93.8kHz] and [fV 75.0Hz] and press [↵].	
			E4		Set the cell to following items, press [↵] and make the adjustment to the value shown at right by using [←] and [→].	
H Size, H Position, V Size and V PCC adjustment do not register to interpolation data.					* <u>H SIZE</u> * <u>H POSITION</u> * <u>V SIZE</u> * <u>V PCC</u> ① <u>V POSITION</u> ⑤ <u>V PCC CORNER</u> ② <u>V LIN (S)</u> ⑥ <u>TRAPEZOID</u> ③ <u>V LIN (C)</u> ⑦ <u>PARALLELOGRAM</u> ④ <u>V PCC (S)</u> ⑧ <u>V PCC BALANCE</u>	① / H Posi : Center  H : 392mm V : 294mm
			EE		After adjustment, return to menu of E2 by pressing [ E ], then return to the main menu by pressing [ E ].	
F	<b>VSR SETTING</b> 2) Adjust VSR Setting	□ Crosshatch	F1	HV10S-1	Set the cell to the menu at left and press [↵].	① : 392mm ±5 ③ : 294mm ±5  ② / V Posi : Center  ④ : Best point
			F2		Set the cell to the adjusting mode <u>INTP [0]</u> and press [↵].	
			F3		Check that the input signal to the monitor is [fH 29.1kHz] and [fV 47.5Hz] and press [↵].	
			F4		Set the cell to following items, press [↵] and make the adjustment to the value shown at right by using [←] and [→].	
V Position adjustment do not register to interpolation data.					* <u>V POSITION</u> ① <u>H SIZE</u> ③ <u>V SIZE</u> ② <u>H POSITION</u> ④ <u>V PCC GAIN</u>	
			F5	HV10S-2	Press [↵] to register, and return to menu of F2.	
			F6		Input signal [fH 52.2kHz] and [fV 92.3Hz]	
			F7	HV10S-3	Select Adjusting mode <u>INTP [1]</u> , and repeat above (F4 F5) procedure.	
			F8		Input signal [fH 75.2kHz] and [fV 137.2Hz]	
			F9	HV10S-4	Select Adjusting mode <u>INTP [2]</u> , and repeat above (F4 F5) procedure.	
			F10		Input signal [fH 96.5kHz] and [fV 182.1Hz]	
			F11		Select Adjusting mode <u>INTP [3]</u> , and repeat above (F4 F5) procedure.	
			FE		Return to the main menu by pressing [ E ].	

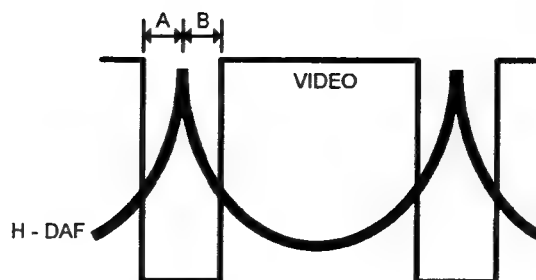
ITEM Program Menu		◇ Test Meter ▼ Test Point □ Pattern	JOB CODE	Input Signal	Operation	Adjusting Value
G	<b>PRESET ADJUST</b> 4) Adjust Factory preset	<input type="checkbox"/> Crosshatch	G1	Mode-1	Set the cell to the menu at left and press [↵].	
			G2		Check that the input signal to the monitor is [fH 93.8KHz] and [fV 75.0Hz] and press [↵].	
			G3		Set the cell to following items, press [↵] and make the adjustment to the value shown at right by using [←] and [→].	① : 392mm ±5 ③ : 294mm ±5 ②④ : Center ⑤⑥⑦⑧ : Best point
					① <u>H. SIZE</u> ⑤ <u>V. PCC</u> ② <u>H. POSI</u> ⑥ <u>V. PCC BALANCE</u> ③ <u>V. SIZE</u> ⑦ <u>TRAPEZOID</u> ④ <u>V. POSI</u> ⑧ <u>PARALLEL</u>	
			G4	Mode-2	After adjustment, return to main menu by pressing [ E ] and [ Y ].	① : 392mm ±7 ③ : 294mm ±7 ②④ : Center ⑤⑥⑦⑧ : Best point
			G5		Check that the input signal to the monitor is [fH 31.5KHz] and [fV 60.0Hz] and press [↵].	
			G6		Make adjustment ①~⑧ of G3 to the value shown at right by using [←] and [→].	
			G7	Mode-3	After adjustment, return to the menu of G2 by pressing [ E ] and [ Y ].	① : 392mm ±7 ③ : 294mm ±7 ②④ : Center ⑤⑥⑦⑧ : Best point
			G8		Check that the input signal to the monitor is [fH 37.5KHz] and [fV 75.0Hz] and press [↵].	
			G9		Make adjustment ①~⑧ of G3 to the value shown at right by using [←] and [→].	
			G10	Mode-4	After adjustment, return to the menu of G2 by pressing [ E ] and [ Y ].	① : 392mm ±7 ③ : 294mm ±7 ②④ : Center ⑤⑥⑦⑧ : Best point
			G11		Check that the input signal to the monitor is [fH 46.9KHz] and [fV 75.0Hz] and press [↵].	
			G12		Make adjustment ①~⑧ of G3 to the value shown at right by using [←] and [→].	
			G13	Mode-5	After adjustment, return to the menu of G2 by pressing [ E ] and [ Y ].	① : 392mm ±7 ③ : 294mm ±7 ②④ : Center ⑤⑥⑦⑧ : Best point
			G14		Check that the input signal to the monitor is [fH 60.0KHz] and [fV 75.0Hz] and press [↵].	
			G15		Make adjustment ①~⑧ of G3 to the value shown at right by using [←] and [→].	
			G16	Mode-6	After adjustment, return to the menu of G2 by pressing [ E ] and [ Y ].	① : 392mm ±7 ③ : 294mm ±7 ②④ : Center ⑤⑥⑦⑧ : Best point
			G17		Check that the input signal to the monitor is [fH 60.0KHz] and [fV 75.0Hz] and press [↵].	
			G18		Make adjustment ①~⑧ of G3 to the value shown at right by using [←] and [→].	
			G19		After adjustment, return to the menu of G2 by pressing [ E ] and [ Y ].	
- To be continued -						

ITEM Program Menu		◇ Test Meter ▼ Test Point □ Pattern	JOB CODE	Input Signal	Operation	Adjusting Value			
G	<b>PRESET ADJUST</b> 4) Adjust Factory preset	□ Crosshatch	G20	Mode-7	Check that the input signal to the monitor is [fH 68.7KHz] and [fV 75.0Hz] and press [J]. Make adjustment ①~⑥ of <b>G3</b> to the value shown at right by using [←] and [→]. After adjustment, return to the menu of <b>G2</b> by pressing [ E ] and [ Y ].  Check that the input signal to the monitor is [fH 80.0KHz] and [fV 75.0Hz] and press [J]. Make adjustment ①~⑥ of <b>G3</b> to the value shown at right by using [←] and [→]. After adjustment, return to the menu of <b>G2</b> by pressing [ E ] and [ N ], then return to the main menu by pressing [ E ].	① : 392mm ±7 ③ : 294mm ±7 ②④ : Center ⑤⑥⑦⑧ : Best point			
	G21								
	G22								
	G23		Mode-8						
	G24								
	GE								
H	<b>CRT CUT-OFF ADJUST</b>  3) Adjust OTHER setting Adjust VIDEO Setting	◇ TV Color Analyzer II □ RGB Off (Sync only)	H1	Mode-1	Set the Contrast to MAX, Brightness to Center and Color is "9300k +8" using the OSD. Check that the input signal to the monitor is [fH 93.8KHz], [fV 75.0Hz] and turn off the RGB signal. Set the cell to the menu at left and press [J] . Set the cell to <u>Adjust VIDEO Setting</u> at the sub menu and press [J]. Make the adjustment <u>R.G and B Low Light</u> by using [←] [→] and Screen VR to CRT cut-off. <b>Please refer to flow chart for this adjustment on page 30.</b>				
	H2								
	H3								
	H4								
	H5 ~ H14								
	H15								
	<b>BRIGHTNESS / COLOR ADJUST</b>	□ White window (8cm×8cm at center)	H15		Change to the pattern at left. Move the cell to the following items and make the adjustment to the value shown at right by using [←] and [→]. <u>R. SUB CONT (COLOR0)</u> <u>G. SUB CONT (COLOR0)</u> <u>B. SUB CONT (COLOR0)</u>  Set Contrast to MIN using the OSD. Move the cell to the following items and make the adjustment to the value shown at right by using [←] and [→]. <u>R. LOW LIGHT G. LOW LIGHT B. LOW LIGHT</u> <b>Adjust two colors only out of above three as shown in H13 on page 30.</b>  Set Contrast to MAX using the OSD. Check the value shown at right, then If out of range, to repeat <b>H15~H18</b> .	Y=105 cd/m <sup>2</sup> x=0.283 ±0.20 y=0.298 ±0.20			
			H16						
			H17						
			H18			x=0.283 ±0.20 y=0.298 ±0.20			
			H19						
			H20			Y=105 cd/m <sup>2</sup> x=0.283 ±0.20 y=0.298 ±0.20			
- To be continued -									

ITEM Program Menu		◇ Test Meter ▼ Test Point □ Pattern	JOB CODE	Input Signal	Operation	Adjusting Value					
H	ABL	□ White flat field (full window)	H21	Mode-1	Change to the pattern at left. Move the cell to <u>ABL (COLOR0)</u> and make the adjustment to the value shown at right by using [←] and [→]. Press [ E ] to messages will appear. <b>Start automatic calculation. OK (y/n) -&gt;</b> Press[ Y ]and [↵]. <b>Refresh LOW-LIGHT2 data (y/n) -&gt;</b> Press[ Y ]and [↵], then return to menu of H4. Return to the main menu by pressing [ E ].	Y=95 cd/m <sup>2</sup>					
			H22								
			H23								
			H24								
			H25								
			H26								
	1.0V ADJUST 7) Special ADJUST 1: Adjust VIDEO 1.0Vpp	□ White window (8cm×8cm at center)	H27		Change to the pattern at left. Change signal to 1.0V p-p Video. Set the cell to the menu at left and press [↵]. Select the <u>1: Adjust VIDEO 1.0Vpp</u> from the menu. Make the adjustment to the value shown at right by using [←] and [→]. Press [↵] to return to menu of H30, then return to the main menu by pressing [ E ]	Y=105 cd/m <sup>2</sup>					
			H28								
			H29								
			H30								
			H31								
			HE								
			I				DAF ADJUST 2) Adjust VSR setting	□ White flat field ◇ Oscilloscope ▼ TP5~GND 100:1 probe ▼ N1102B ~ GND 10:1 probe	I 1	HV10S-1	Set the cell to the menu at left and press [↵]. Set the cell to the menu at left and press [↵]. Set the cell to the adjusting mode <u>INTP [0]</u> and press [↵]. Check that the input signal to the monitor is [fH 29.1kHz] and [fV 47.5Hz]. Set the cell to <u>H DAF PHASE</u> and press [↵]. Adjust as shown at below by using [←] and [→], and press [↵] for registration. (Refer to <b>Fig. 16</b> for adjustment on next page) Set the cell to <u>H DAF GAIN</u> and press [↵]. Adjust as shown at right by using [←] and [→], and press [↵] for registration. (Refer to <b>Fig. 18</b> for adjustment on next page) Press [↵] to register, and return to menu of I3.
I 2											
I 3											
I 4											
I 5											
I 6											
I 7	HV10S-2	Input signal [fH 52.2kHz] and [fV 92.3Hz] Select Adjusting mode <u>INTP [1]</u> , and repeat above (I5 I6 I7 I8 I9) procedure.									
I 8											
I 9											
I 10	HV10S-3	Input signal [fH 75.2kHz] and [fV 137.2Hz] Select Adjusting mode <u>INTP [2]</u> , and repeat above (I5 I6 I7 I8 I9) procedure.									
I 11											
I 12	HV10S-4	Input signal [fH 96.5kHz] and [fV 182.1Hz] Select Adjusting mode <u>INTP [3]</u> , and repeat above (I5 I6 I7 I8 I9) procedure.									
I 13											
I 14											
I 15		Return to the main menu by pressing [ E ].									
I E											

**Fig. I6**

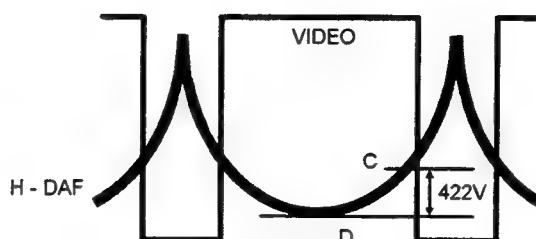
Set position to A=B

**Fig. I8**

Set voltage to C - D = 422V

C : Crossing VIDEO and H. DAF

D : Bottom of H. DAF



Oscilloscope Range

HV10H - 1 10  $\mu$ s / div.HV10H - 2 5  $\mu$ s / div.HV10H - 3 5  $\mu$ s / div.HV10H - 4 2  $\mu$ s / div.

ITEM Program Menu		<input type="checkbox"/> Test Meter <input checked="" type="checkbox"/> Test Point <input type="checkbox"/> Pattern	JOB CODE	Input Signal	Operation	Adjusting Value
J	<b>FOCUS</b>	<input type="checkbox"/> Character	J1	MODE-1	Check that the input signal to the monitor is [fH 93.8KHz] and [fV 75.0Hz].	
			J2		Make the corner sections of the screen optimum by turning D-FOCUS VR on the FBT.	
			J3		Make the center section optimum by turning S-FOCUS VR on the FBT.	
			J4		Repeat J2 and J3 to make it optimum.	
K	<b>DATA SAVING</b> 6) Save data to file		K1		Set the cell to the menu at left and press [↵].	
			K2		Key in the file name after [ ] : Use serial number as a file name ( EXAMPLE : 1M870100001 = "80100001.DAT" )	

ITEM Program Menu		◇ Test Meter ▼ Test Point □ Pattern	JOB CODE	Input Signal	Operation	Adjusting Value
L	<b>DDC DATA SET</b>		L1		Set the cell to the menu at left and press [↵].	
	7) Special ADJUST		L2		Select the <u>7: Change DDC data</u> from the menu.	
	7: Change DDC data		L3		Key in the monitor <b>Unit Number</b> and press [↵]. < ID Serial Number : > (5 digits)	
			L4		Key in the product <b>Week</b> and press [↵]. < Week of Manufacture : > (2 digits)	
			L5		Key in the product <b>Year</b> and press [↵]. < Year of Manufacture : > (4 digits)	
			L6		Key in the monitor <b>Unit Number</b> and press [↵]. < Monitor S/N : > (5 digits)	
			LE		Press [ E ] to return to main menu.	
					To get data of L3, L6 (U/N), and L4 (week) L5 (year) by reading Fig. L from the Serial Number.	

**Fig. L**

1M	8	0	1	0	0	0	0	1
①	②	③	④					

- ① Product Code                      ③ Week Code  
 ② Year Code : 8 means 1998      ④ Unit Number

**Example**

**S/N : 1M80100001**  
**Year ----- 1998**  
**Week ----- 01**  
**Unit No. ---- 00001**

## CRT CUT-OFF ADJUSTMENT

**WARNING**  
Do not turn the screen VR after this adjustment.

**H5** Set screen VR fully counterclockwise (Min).

**H6** Set BRIGHTNESS to center point by using the OSD

**H7** Set data value to "30" for R, G, B LOW LIGHT

**H8** Turn screen VR until the raster appears with any one of three (R,G,B) colors

### Conditions

Signal : Turn off the R,G,B (sync signal only)

Adjust Menu : "3) Adjust OTHER setting" at main menu

"Adjust VIDEO setting" at sub manu

If Blue appears in **H8**

**H9** Set Value to "FF" for  
< R. LOW LIGHT >

**H10** Turn screen VR until the raster  
appears with any one of  
two (G or B) colors.

If Green appears in **H10**

**H11** Set Value to "FF" for  
< G. LOW LIGHT >

**H12** Adjust Screen VR to  
"0.50" cd/m<sup>2</sup>  
for Blue raster

**H13** Adjust  
< R. LOW LIGHT >  
< B. LOW LIGHT >  
to [ x=0.283 y=0.298 ]

If Blue appears in **H10**

**H11** Set Value to "FF" for  
< B. LOW LIGHT >

**H12** Adjust Screen VR to  
"3.51" cd/m<sup>2</sup>  
for Green raster

**H13** Adjust  
< R. LOW LIGHT >  
< G. LOW LIGHT >  
to [ x=0.283 y=0.298 ]

If Green appears in **H8**

**H9** Set Value to "FF" for  
< G. LOW LIGHT >

**H10** Turn screen VR until the raster  
appears with any one of  
two (R or B) colors.

If Red appears in **H10**

**H11** Set Value to "FF" for  
< R. LOW LIGHT >

**H12** Adjust Screen VR to  
"0.50" cd/m<sup>2</sup>  
for Blue raster

**H13** Adjust  
< R. LOW LIGHT >  
< G. LOW LIGHT >  
to [ x=0.283 y=0.298 ]

If Blue appears in **H10**

**H11** Set Value to "FF" for  
< B. LOW LIGHT >

**H12** Adjust Screen VR to  
"1.00" cd/m<sup>2</sup>  
for Red raster

**H13** Adjust  
< G. LOW LIGHT >  
< B. LOW LIGHT >  
to [ x=0.283 y=0.298 ]

If Red appears in **H8**

**H9** Set Value to "FF" for  
< B. LOW LIGHT >

**H10** Turn screen VR until the raster  
appears with any one of  
two (R or G) colors.

If Red appears in **H10**

**H11** Set Value to "FF" for  
< R. LOW LIGHT >

**H12** Adjust Screen VR to  
"3.51" cd/m<sup>2</sup>  
for Green raster

**H13** Adjust  
< R. LOW LIGHT >  
< B. LOW LIGHT >  
to [ x=0.283 y=0.298 ]

If Green appears in **H10**

**H11** Set Value to "FF" for  
< G. LOW LIGHT >

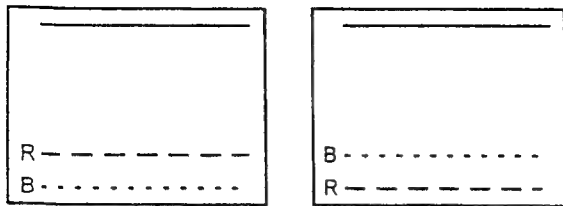
**H12** Adjust Screen VR to  
"1.00" cd/m<sup>2</sup>  
for Red raster

**H13** Adjust  
< G. LOW LIGHT >  
< B. LOW LIGHT >  
to [ x=0.283 y=0.298 ]

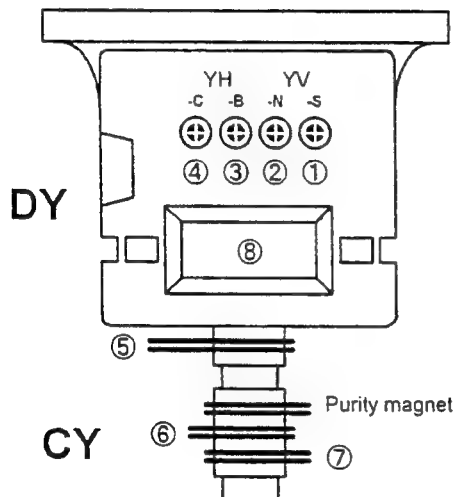
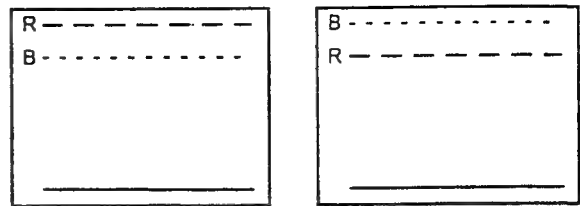
**H14** Test Pattern : 16 gradation grayscale. Adjust screen VR so the 2nd level of gray appears slightly.

## 2. Adjustment Location for Purity and Convergence

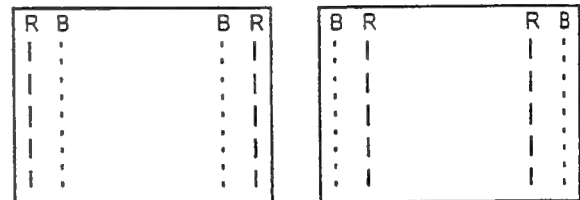
### ① Differential VR YV-S



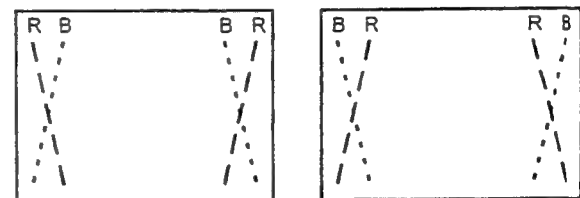
### ② Differential VR YV-N



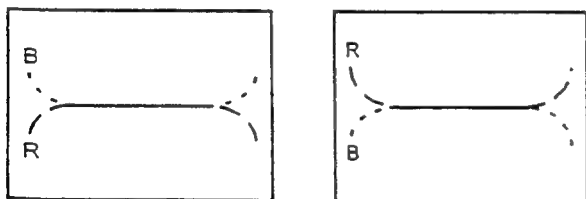
### ③ Differential VR YH-B



### ④ Differential VR YH-C



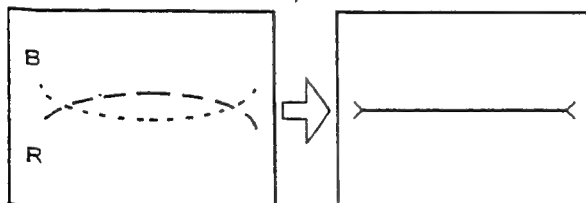
### ⑤ Four-pole magnet B



Beams are twisted lefthand

Beams are twisted righthand

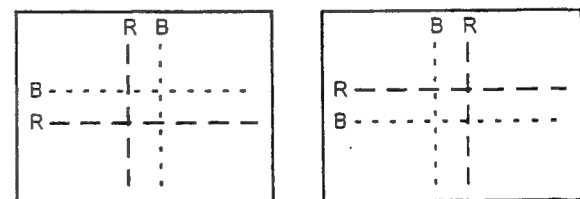
For example lefthand



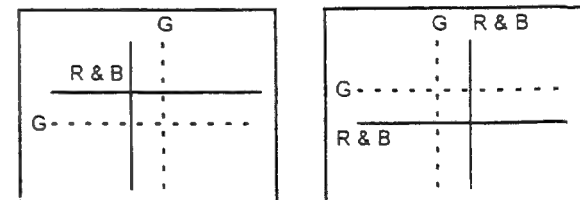
With four-pole magnet B ⑤

With four-pole magnet A ⑥

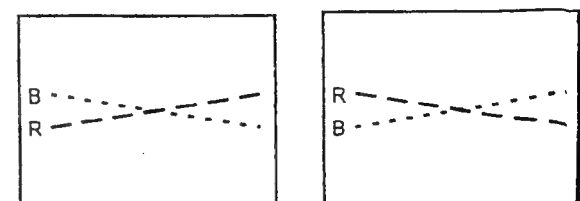
### ⑥ Four-pole magnet A



### ⑦ Six-pole magnet

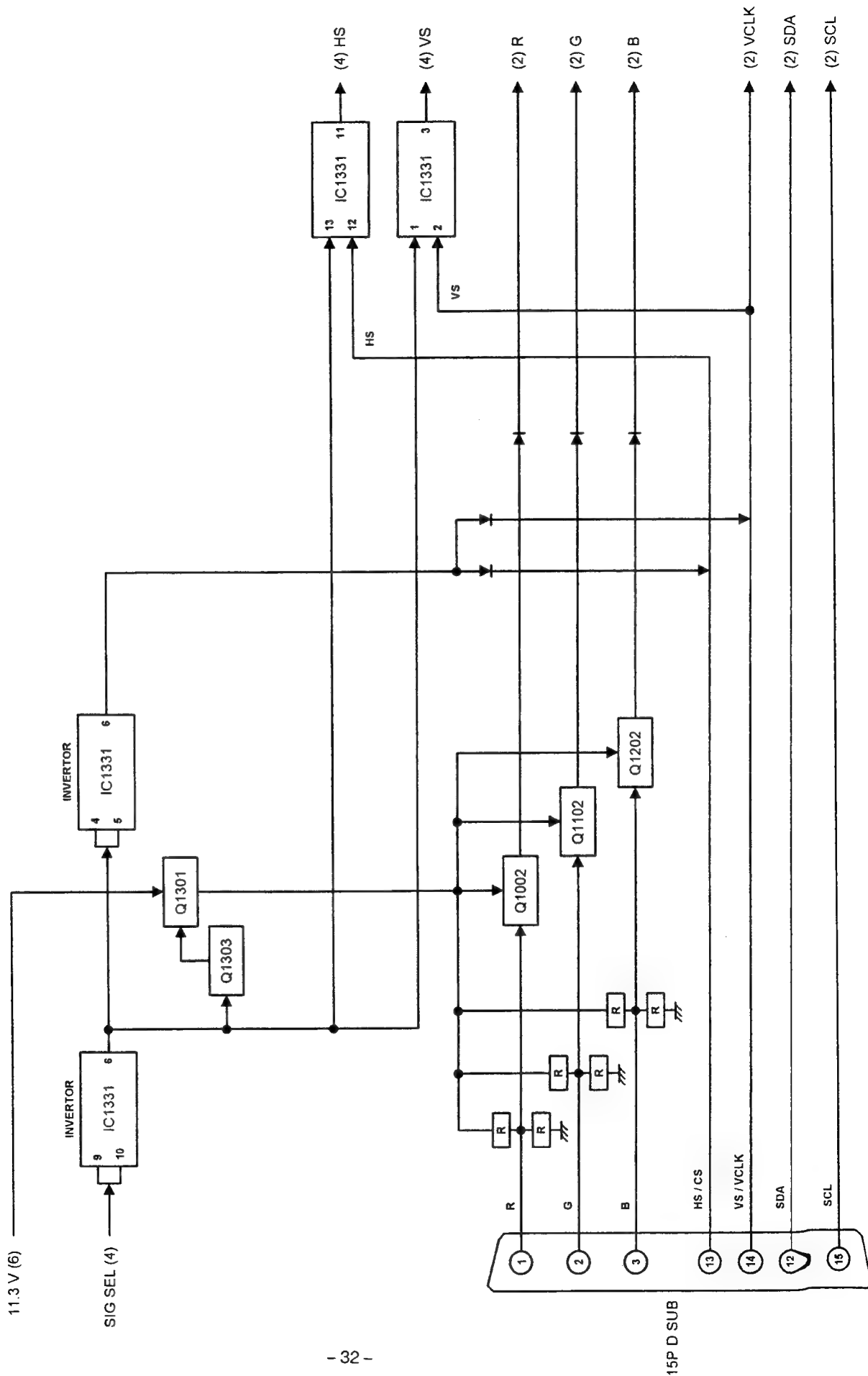


### ⑧ Differential Coil

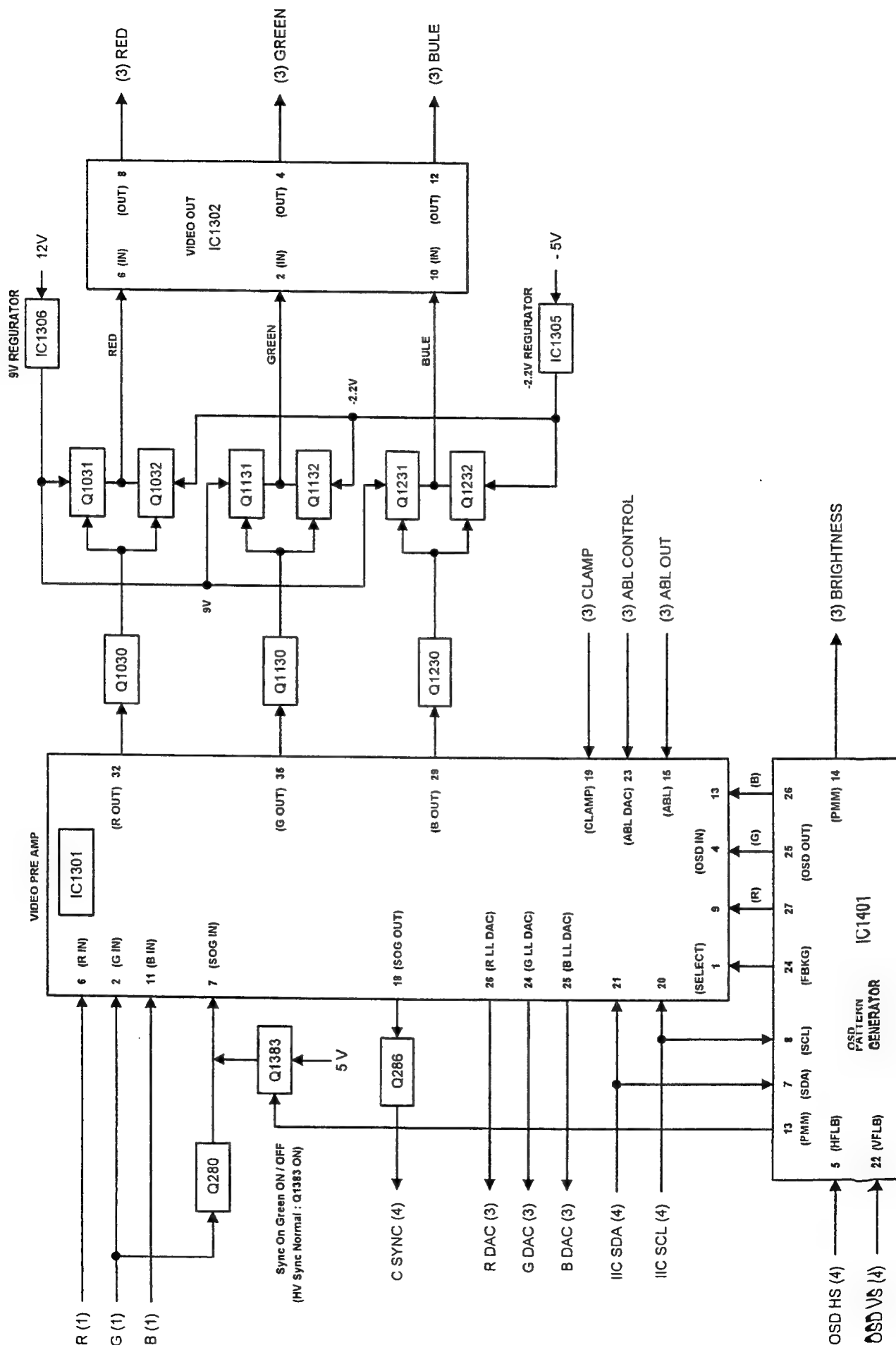


# SHEET (1) / VIDEO AMP for HV10S

## BLOCK DIAGRAM

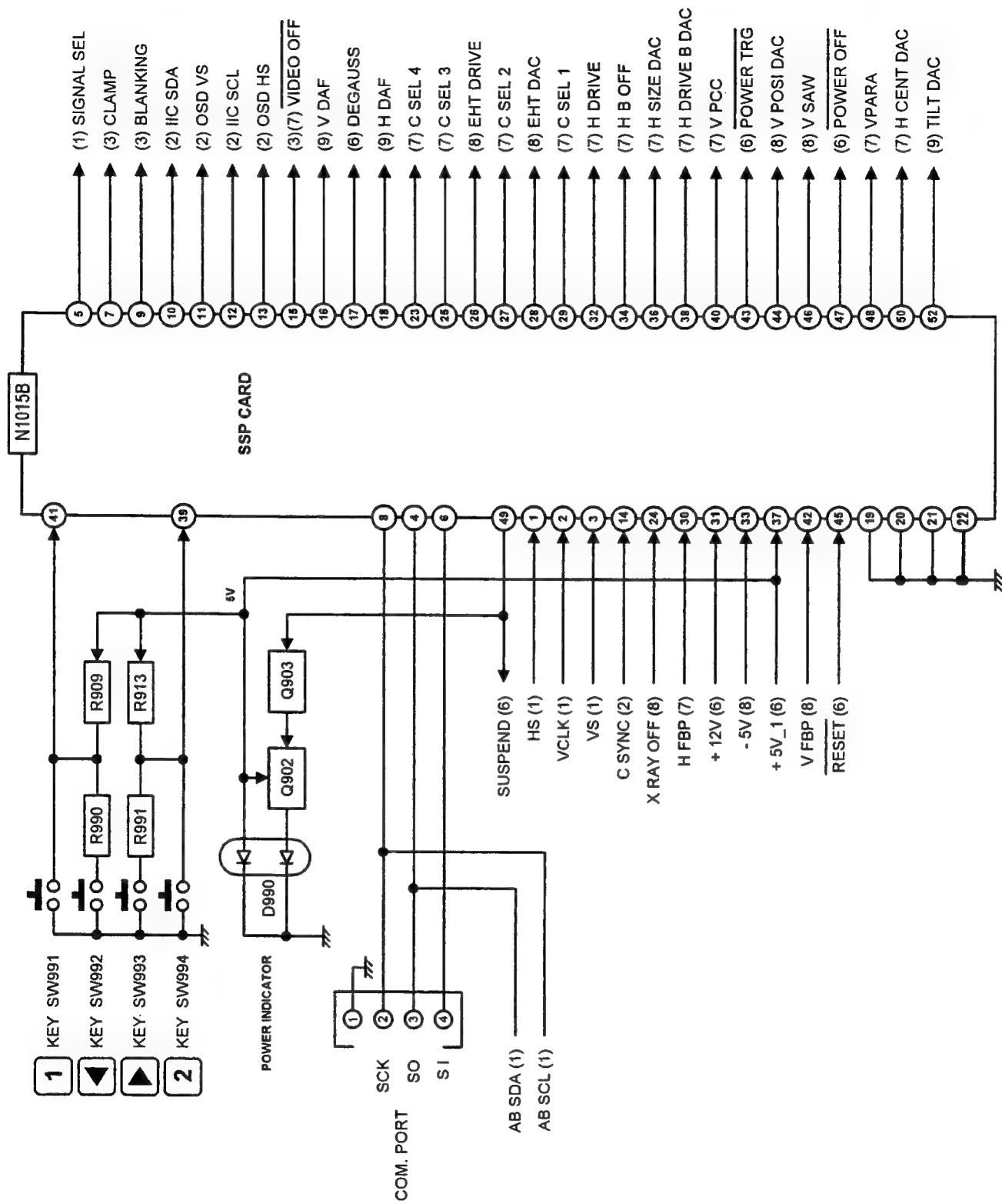


# SHEET (2) / VIDEO OUT for HV10S



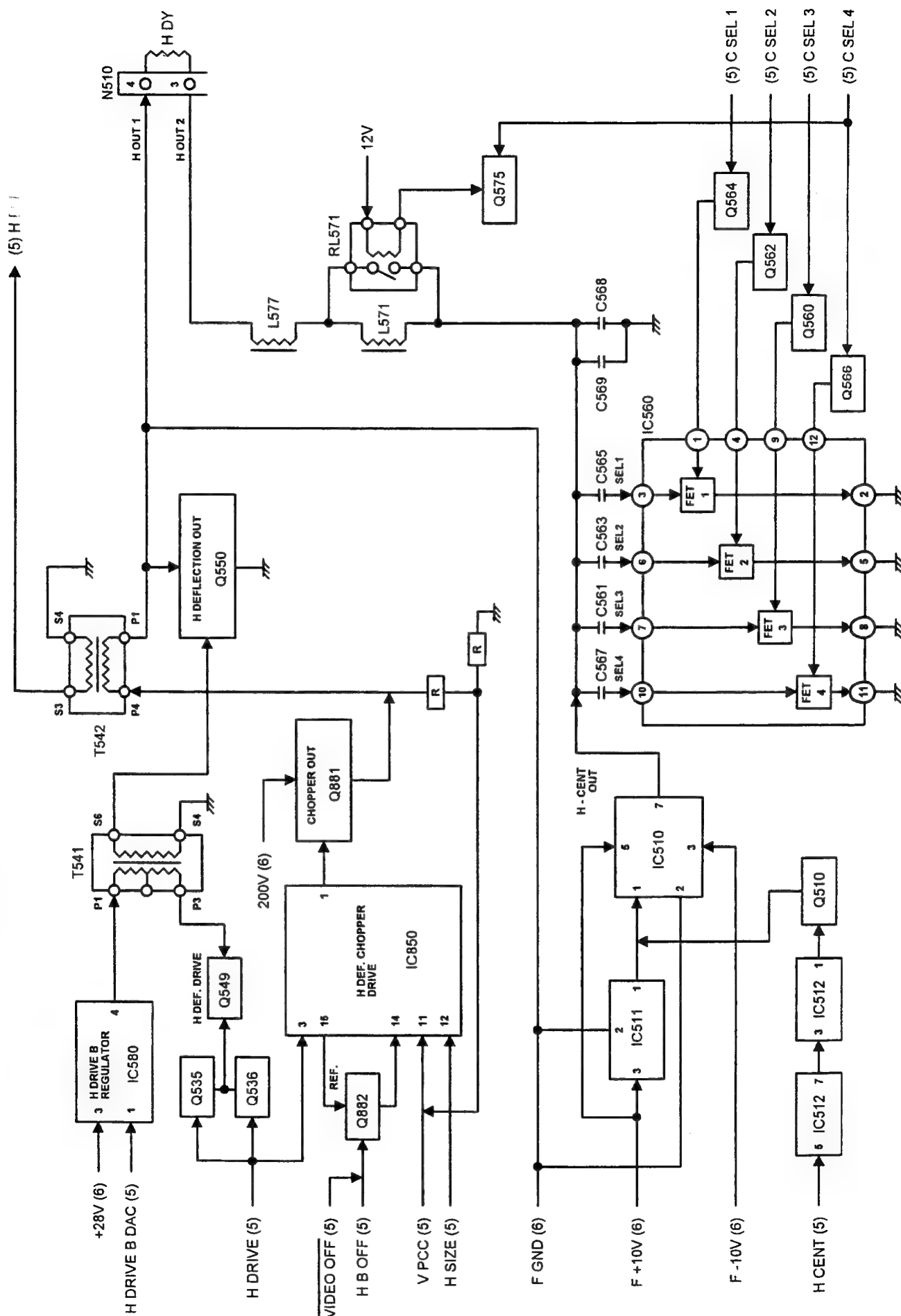
The schematic diagram illustrates the internal circuitry of a color television receiver, starting from the input stage and ending at the CRT display. The input stage includes three 110V AC lines connected to resistors R1267, R1167, and R1067, which feed into the R, G, and B signal lines. These lines pass through various stages of amplification and processing, including clamp and brightness control sections. Key components include transistors Q1065, Q1165, Q1265, Q1345, Q1346, Q1381, Q1382, Q1371, and Q1370, along with diodes D1383 and D1382. The output stage drives the CRT display, which is connected to the R, G, and B signal lines, as well as the HEATER (6) and EHT (8) lines. The diagram also shows the connection to the (8) S\_FOCUS and (8) D\_FOCUS lines, and the (5) BLANKING line. The overall layout is organized into functional blocks, with the input stage on the left, the processing stage in the center, and the output stage on the right.

# SHEET (4)(5) / SSP CARD for HV10S

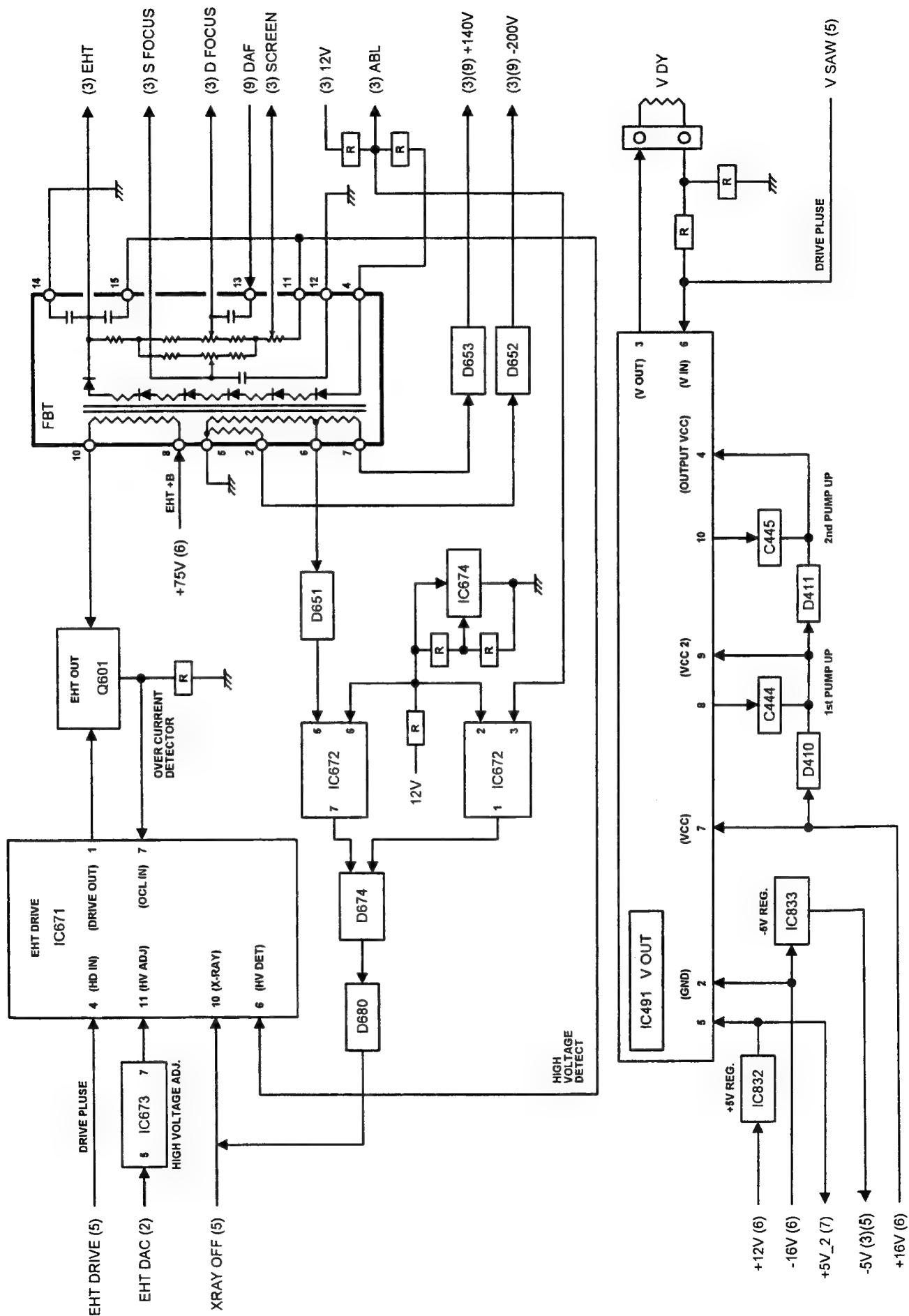




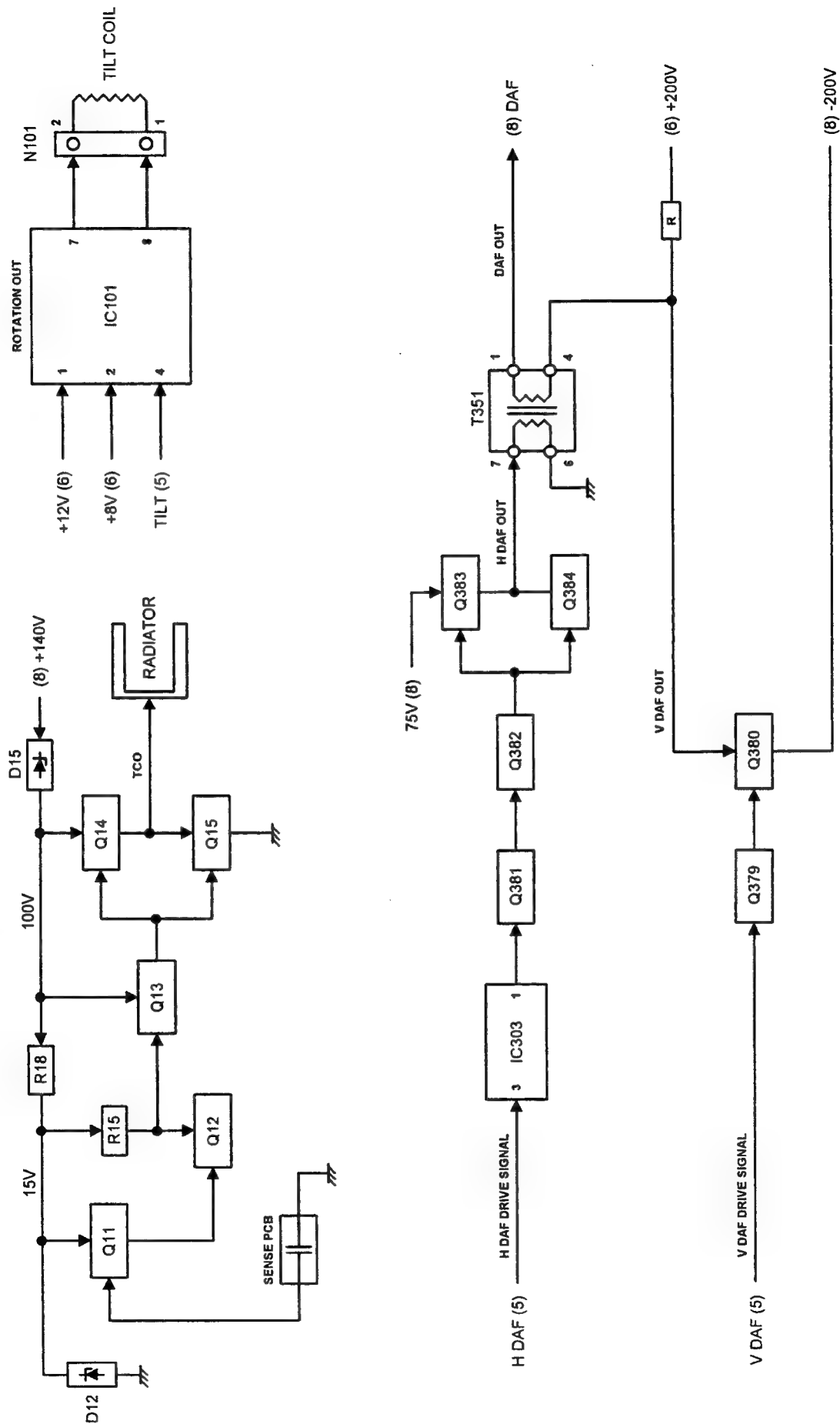
# SHEET (7) / HORIZONTAL DEFLECTION for HV10S

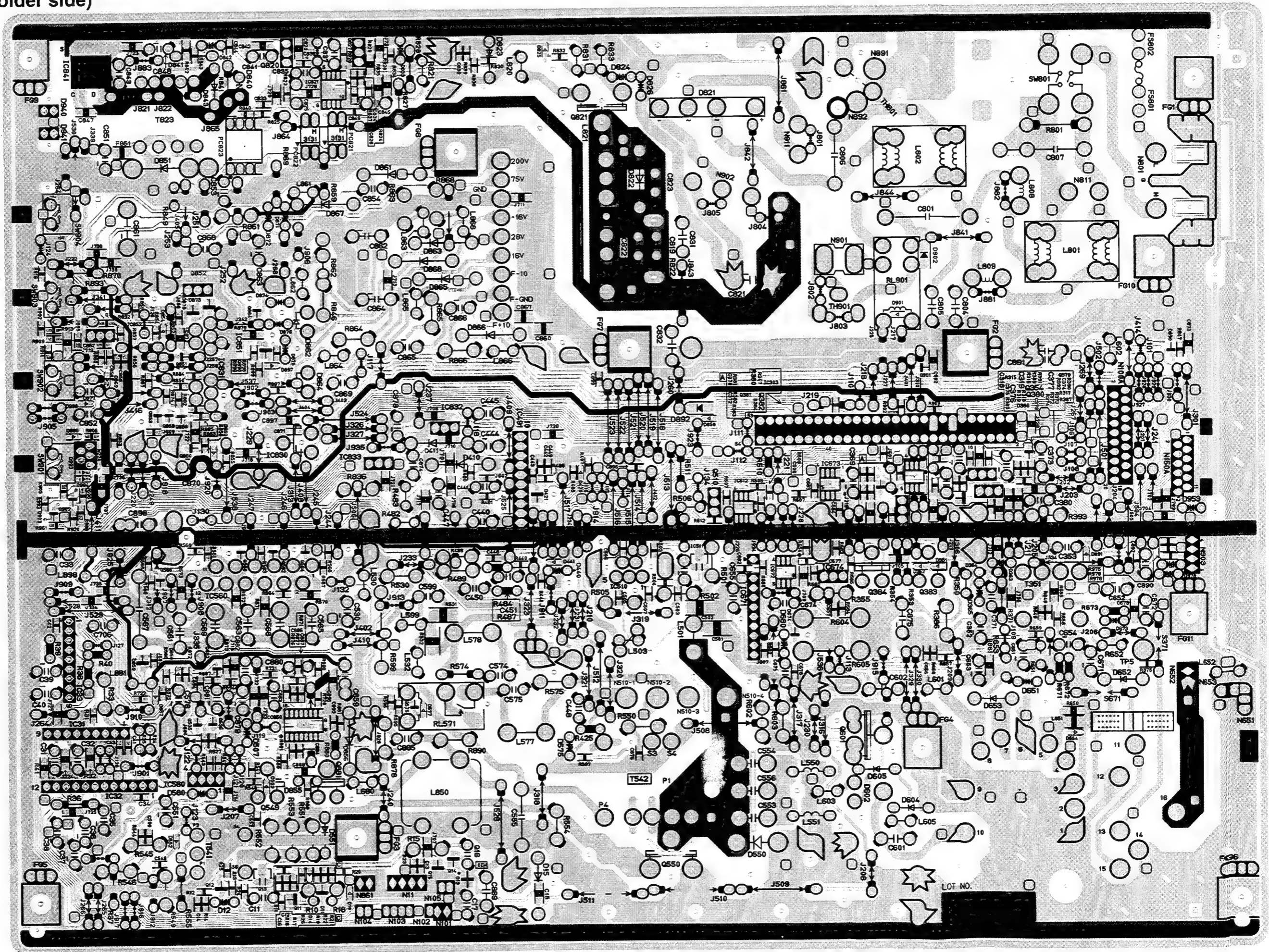


# SHEET (8) / EHT OUT for HV10S

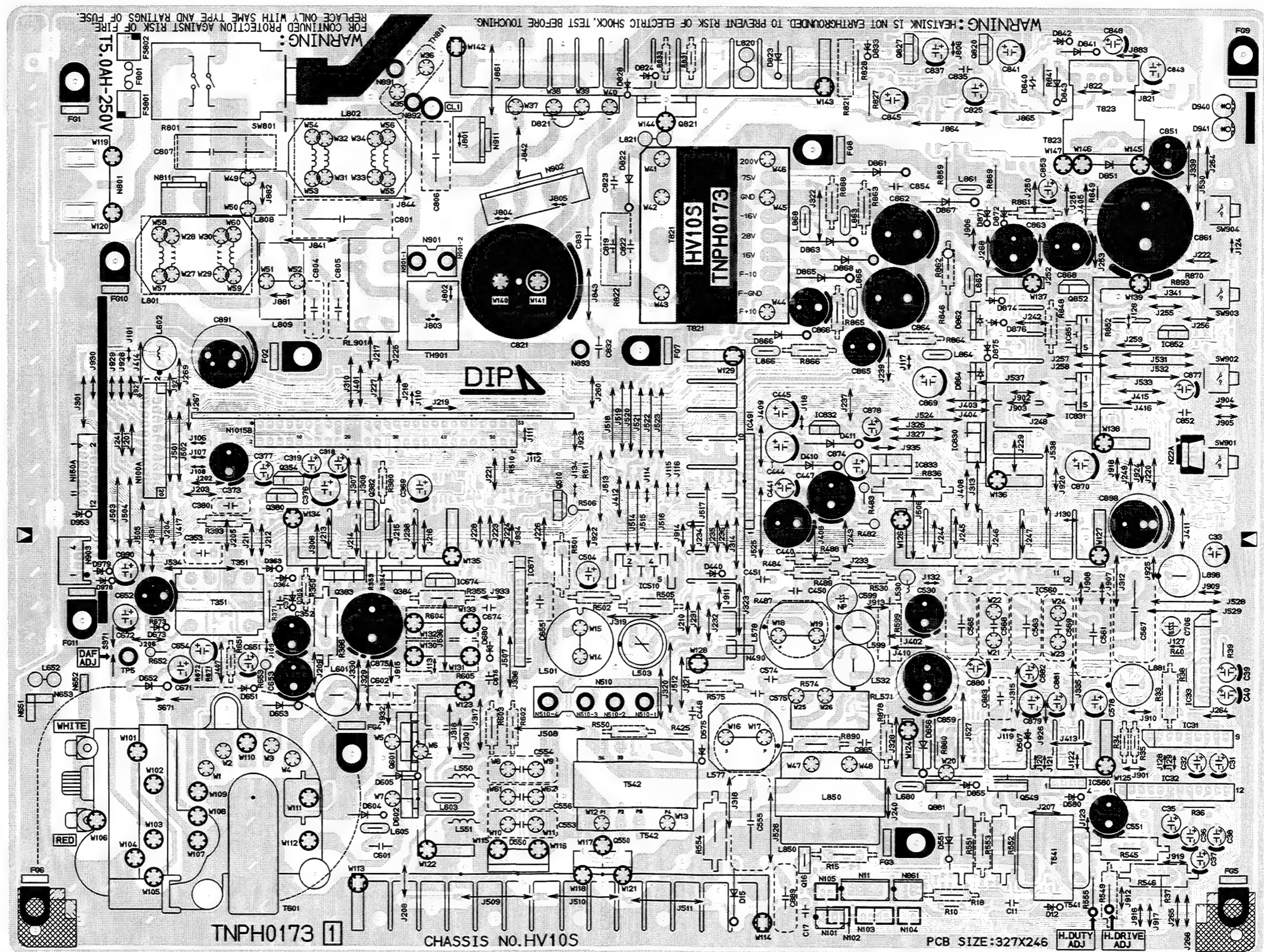


# SHEET (9) DAF OUT / TILT CONTROL / TCO for HV10S

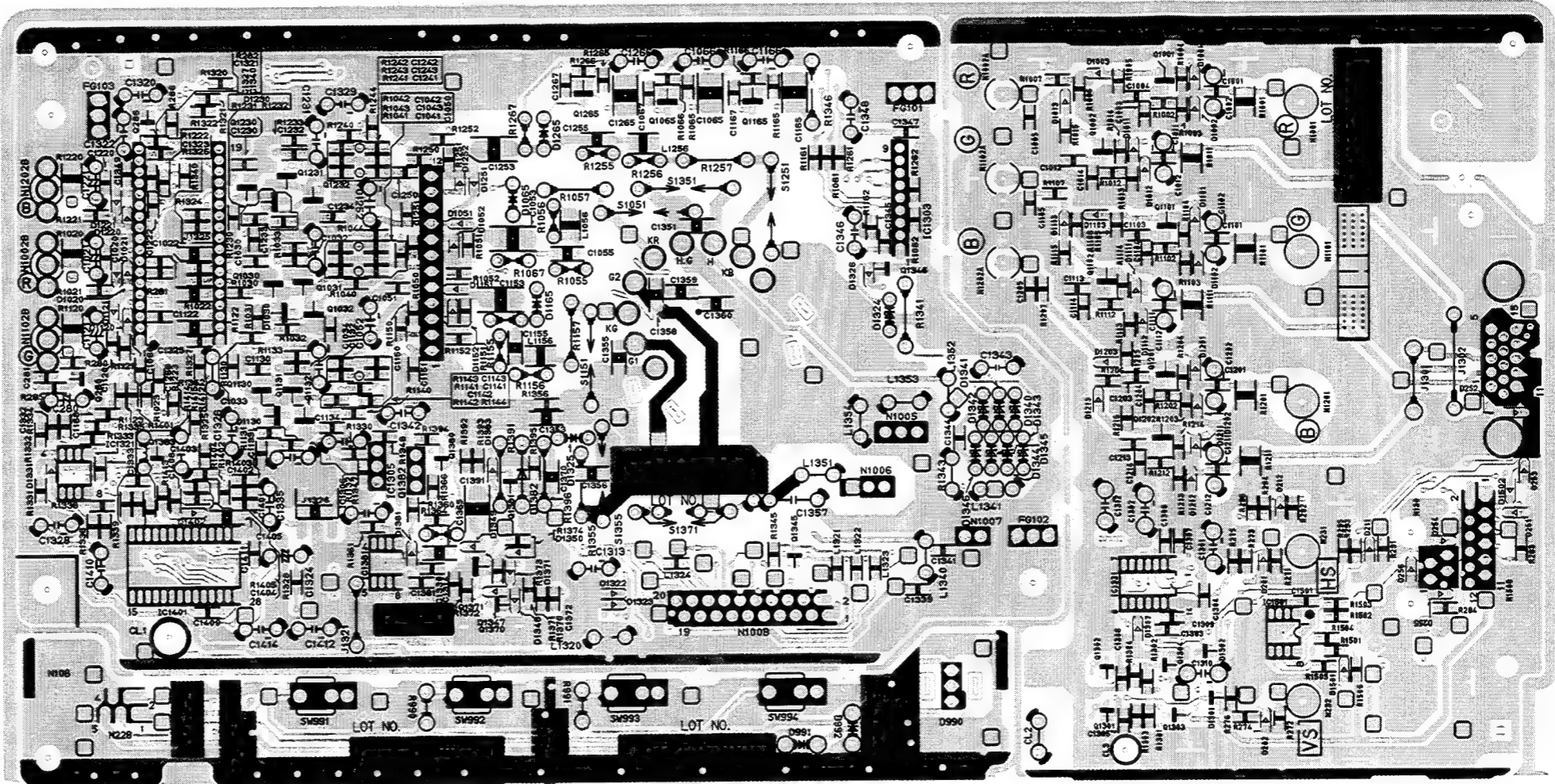




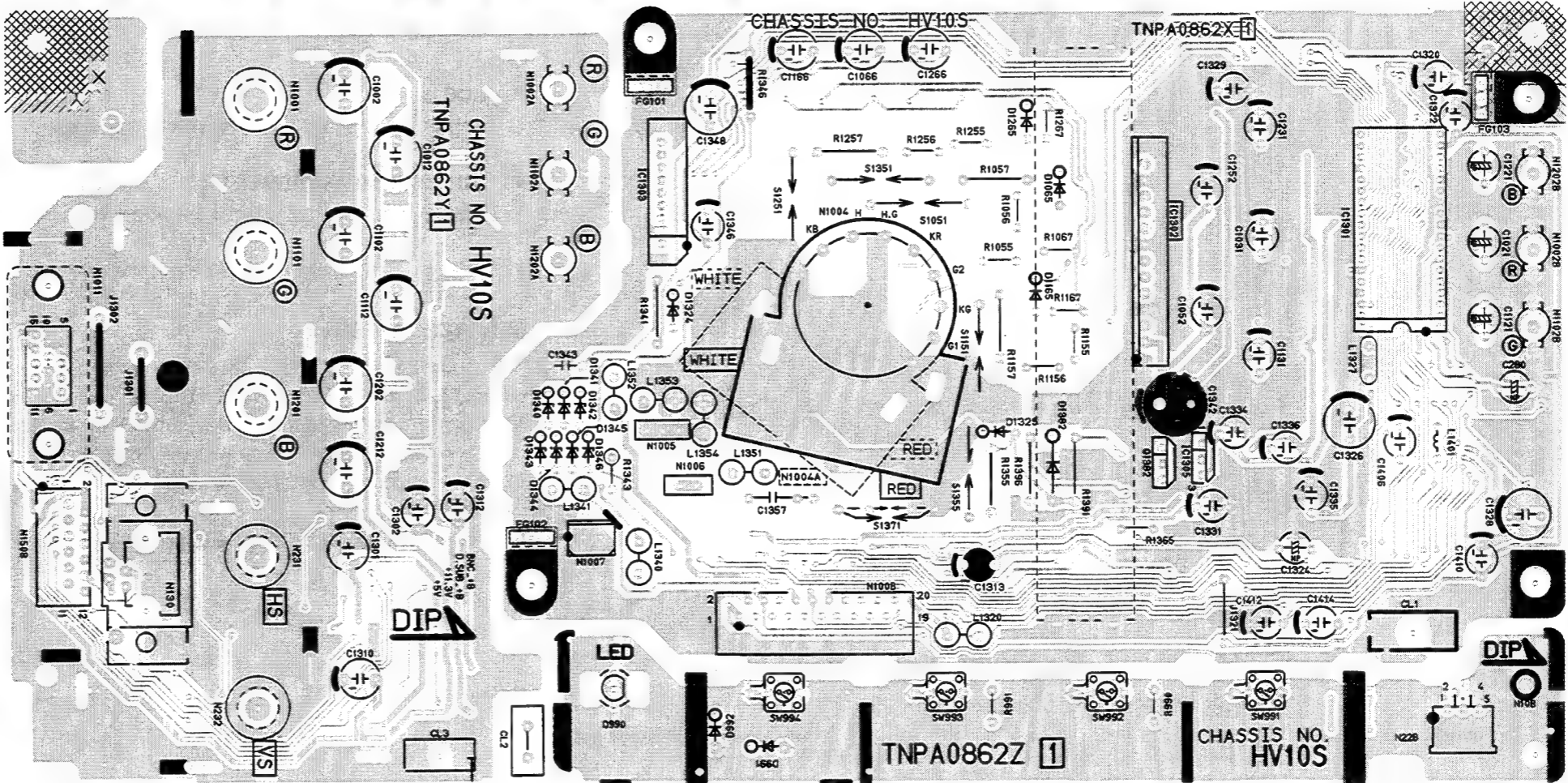
MAIN BOARD (Parts side)



VIDEO BOARD (Solder side)



VIDEO BOARD (Parts side)



# SCHEMATIC DIAGRAM

## IMPORTANT SAFETY NOTICE










The component identified by shading or international symbol  $\triangle$  on the following schematic diagrams incorporate special features important for protection from X-Radiation, fire and electrical shock hazards. When servicing it is essential that only manufacturer's specified parts be used for those critical components.

### NOTES :

#### 1. RESISTOR

All resistors are carbon 1/4W resistor, unless otherwise noted by the following marks.

Unit of resistance is ohm ( $\Omega$ ), (K = 1,000, M = 1,000,000)

- |   |  |
|---|--|
|  : Non Flammable           |  : Solid                                |
|  : Metal Oxide             |  : Metal (Precision and high stability) |
|  : Wire Wound              |  : Thermistor                           |
|  : Fusible                 |  : Positive coefficient Thermistor      |
|  : Flame Proof Rectangular |  |

#### 2. CAPACITOR

All capacitors are ceramic 50V capacitor, unless otherwise noted by the following marks.

Unit of capacitance is  $\mu\text{F}$ , unless otherwise noted.

- |  |   |
|--|---|
|  : Electrolytic             |  : Polyester           |
|  : Tantalum                 |  : Metalized Polyester |
|  : Bipolar                  |  : Polypropylene       |
|  : Polystyrene              |  : Mica                |
|  : Temperature Compensation |  : Ceramic             |
|  |  : Ceramic (SL)        |

#### 3. COIL

Unit of inductance is  $\mu\text{H}$ , unless otherwise noted.

#### 4. VOLTAGE MEASUREMENT

Voltage is measured by a digital meter receiving normal signal.

5. This schematic diagram is the latest at the time of printing and is subject to change without notice.

### SERVICE NOTES :

This model has a section that does not share a common ground with the power supply section. The different sections are referred to as the HOT section and the COLD section in the precautions below.

1. Do not touch the HOT section and the COLD section at the same time. You may receive an electric shock.
2. Do not short the HOT section to the COLD section. This could blow the fuse or damage parts.
3. Never measure the HOT section and the COLD section at the same time when using tools such as oscilloscopes or multi-meters.
4. Always unplug the unit before beginning any operation such as removing the chassis.

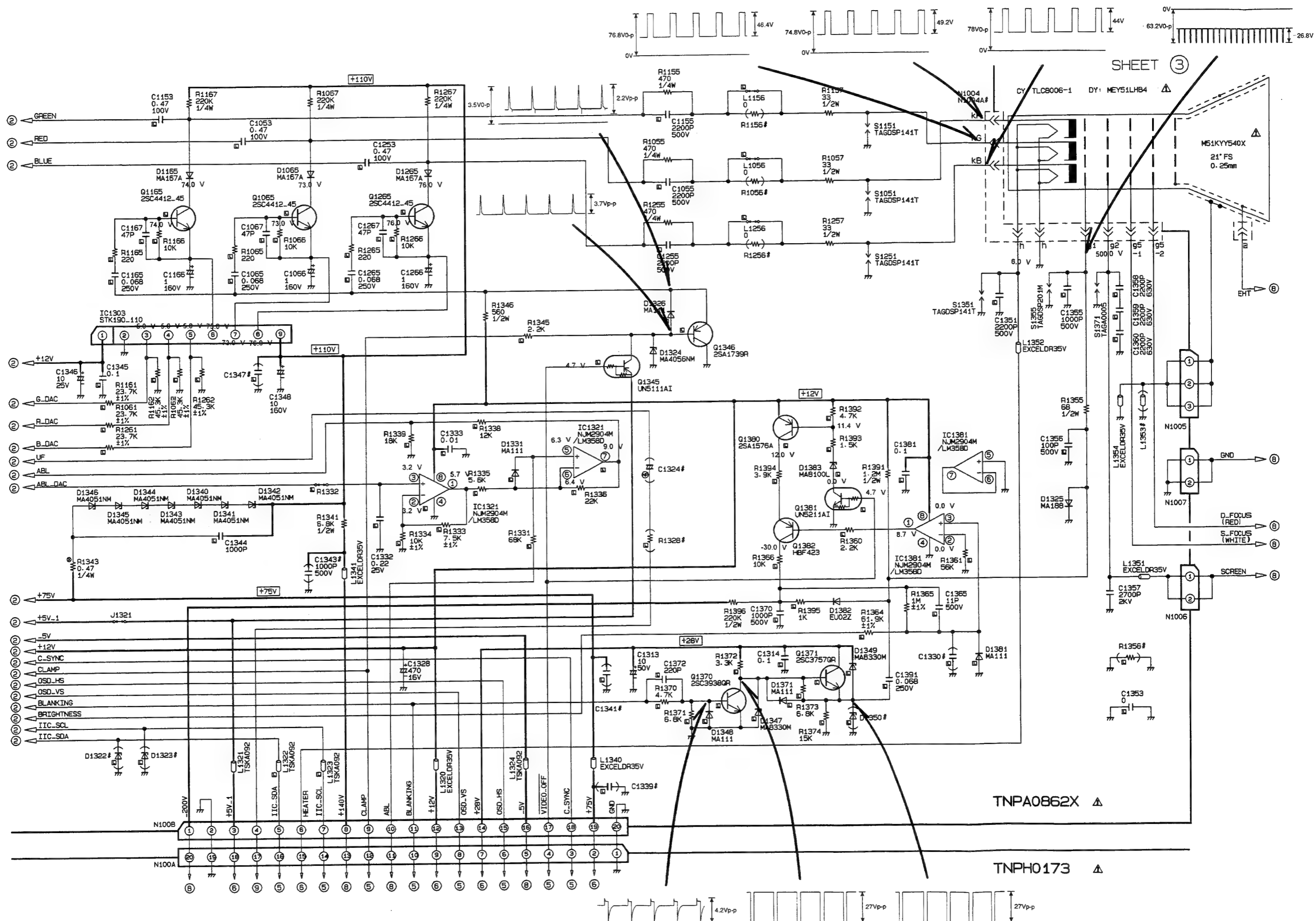
## M-1F63TV

SHEET ①

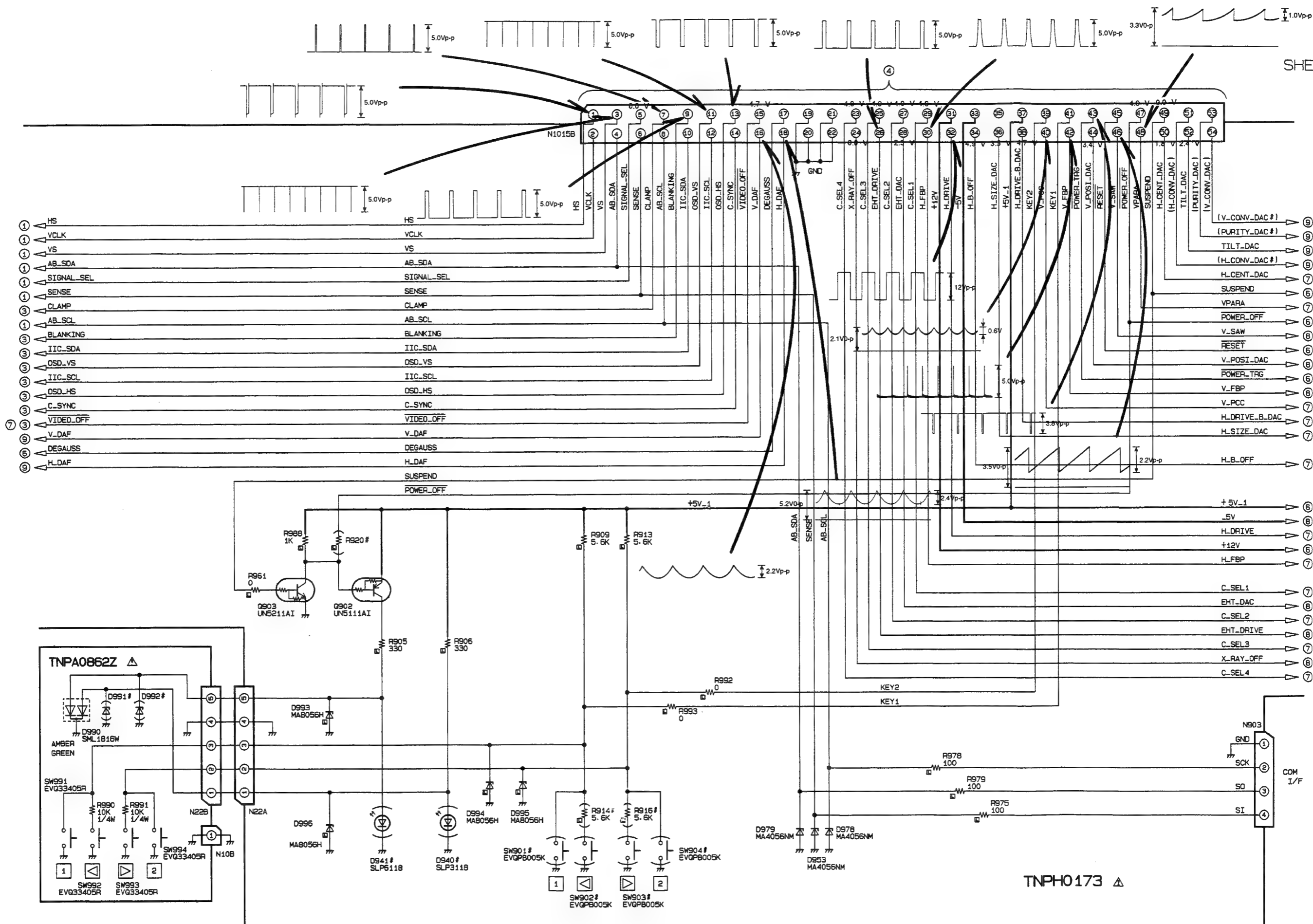




SHEET ③

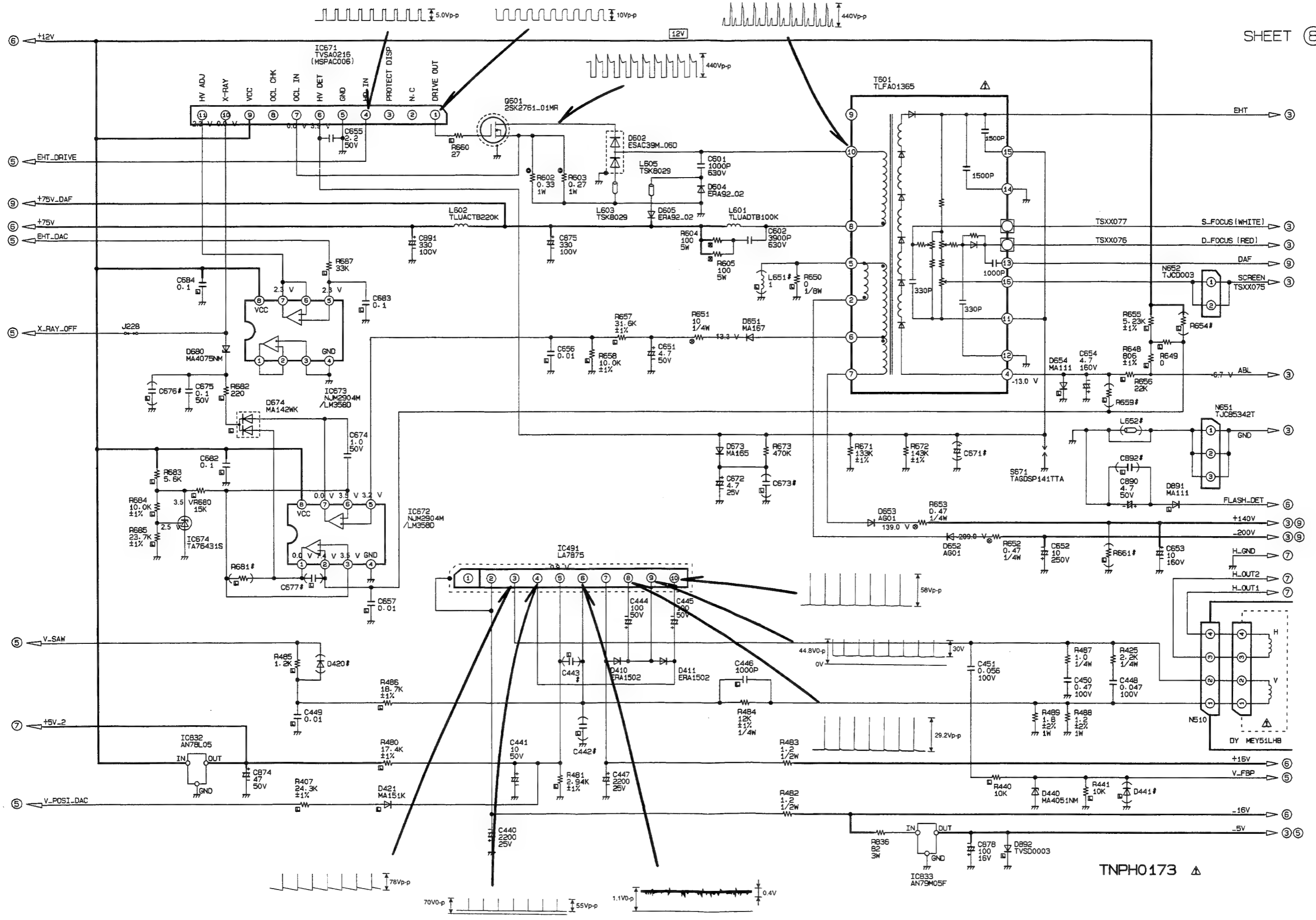


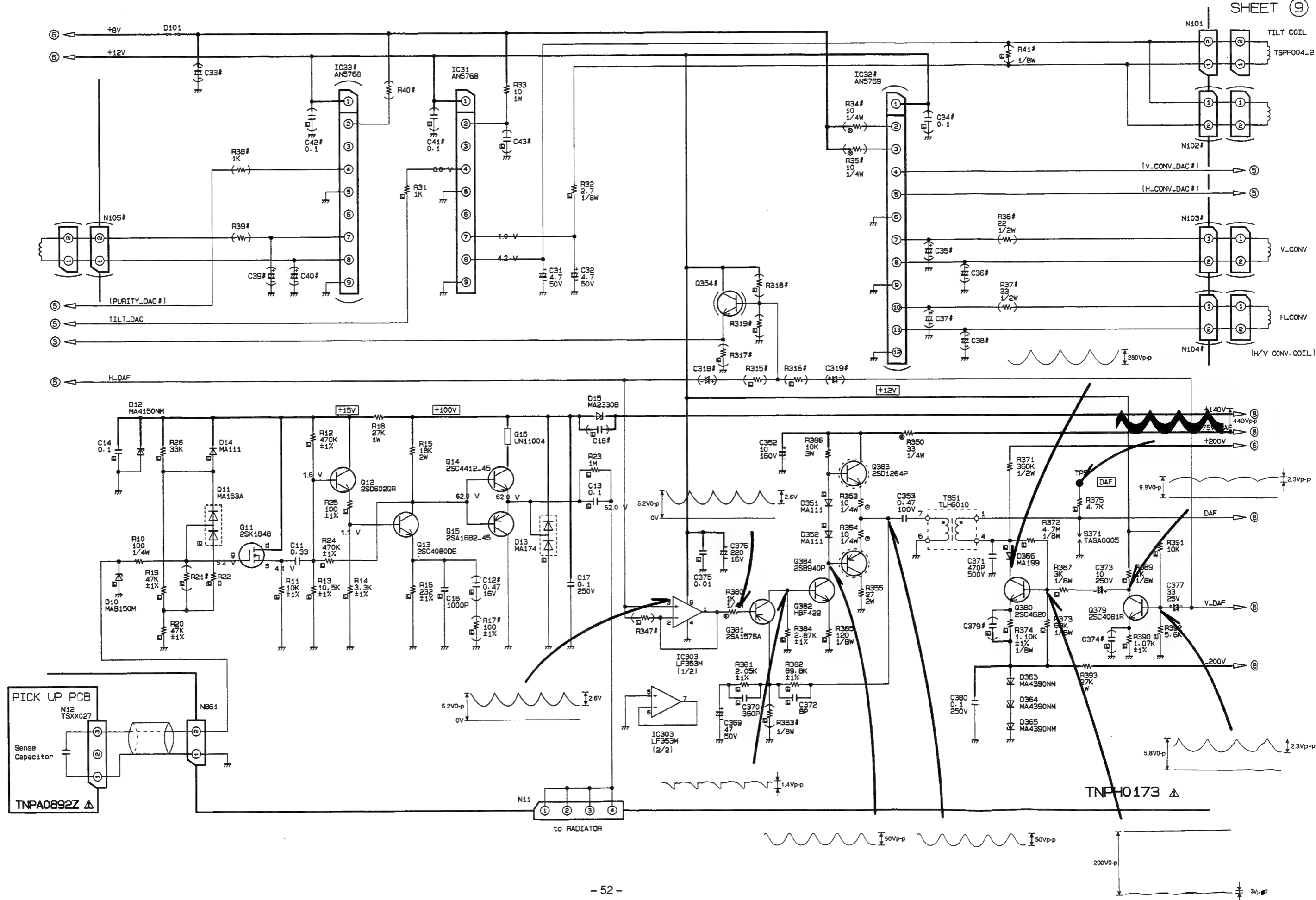








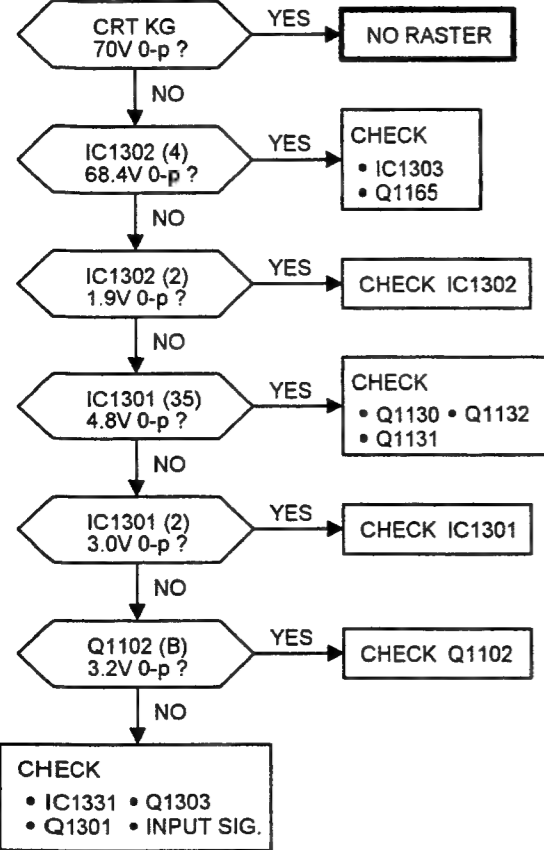




## TROUBLE SHOOTING HINTS

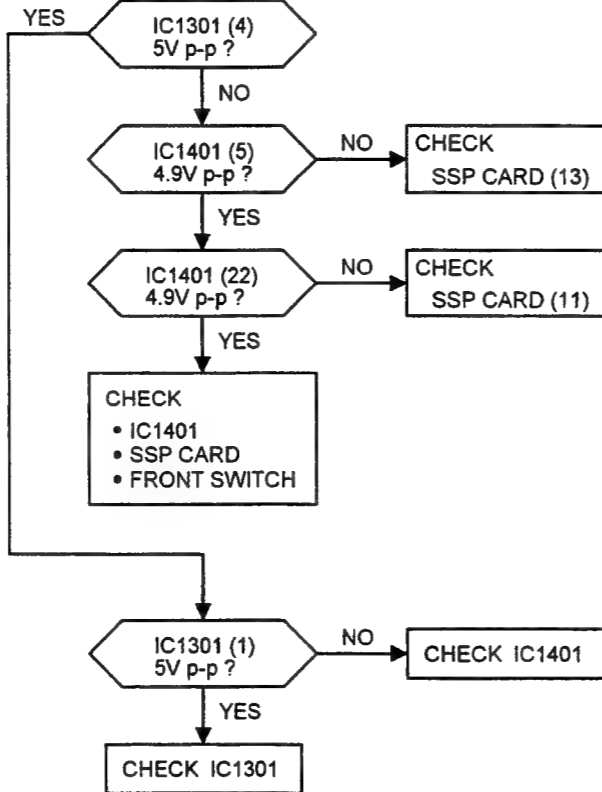
### • NO CHARACTERS • MISSING ONE COLOR

EXAMPLE : GREEN MISSING  
SIGNAL IN : 15P D-SUB

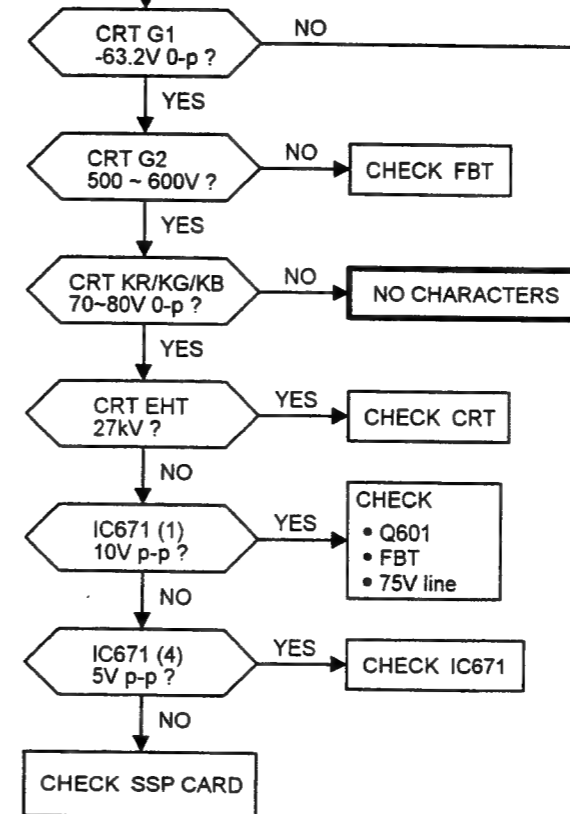


### OSD DOES NOT WORK

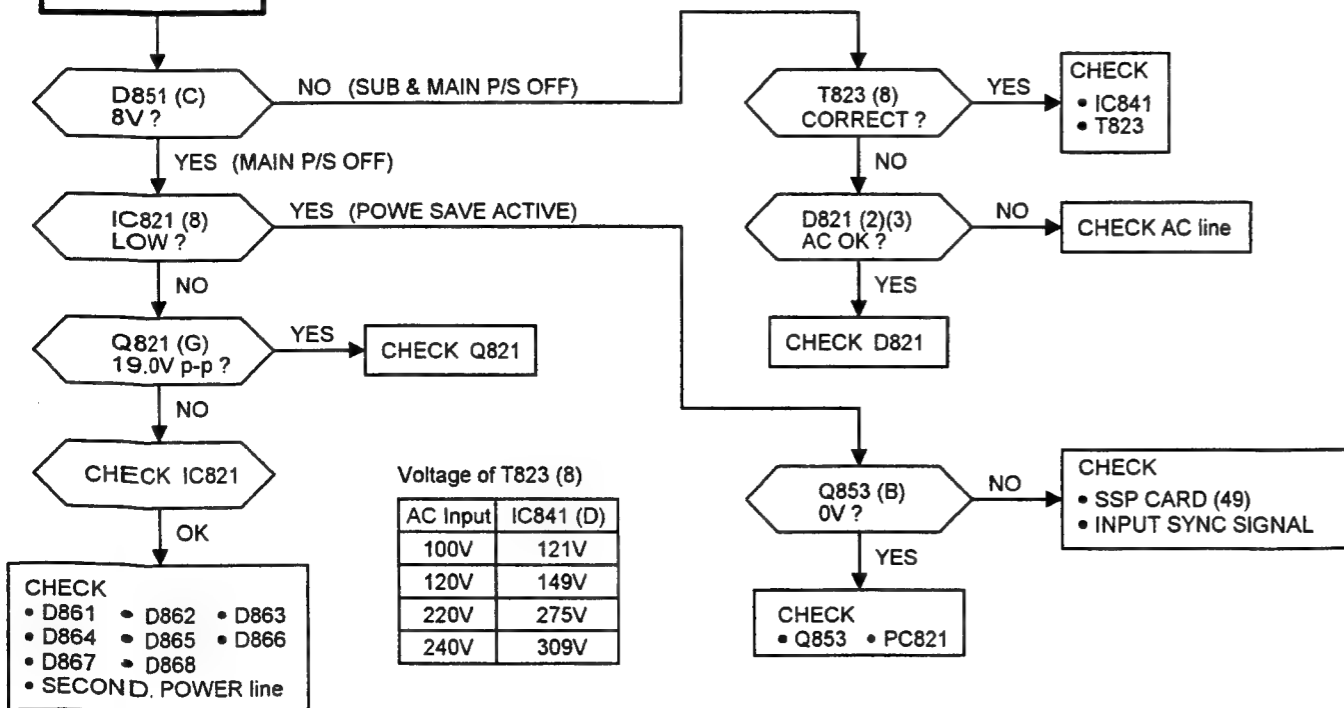
EXAMPLE : GREEN MISSING  
CONDITION : OSD ON



### NO RASTER

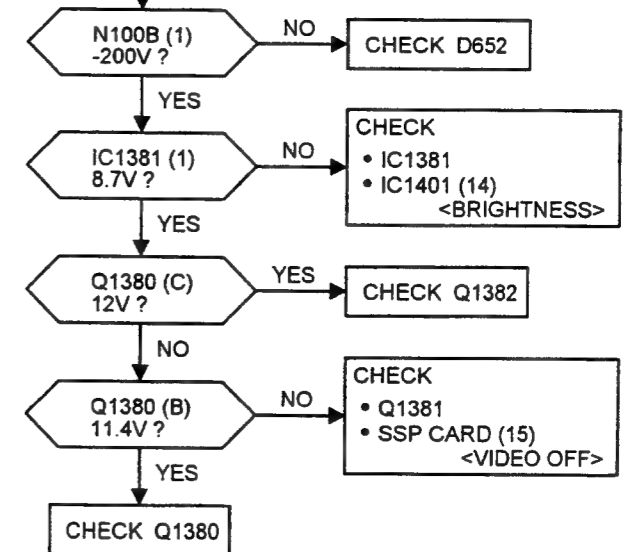


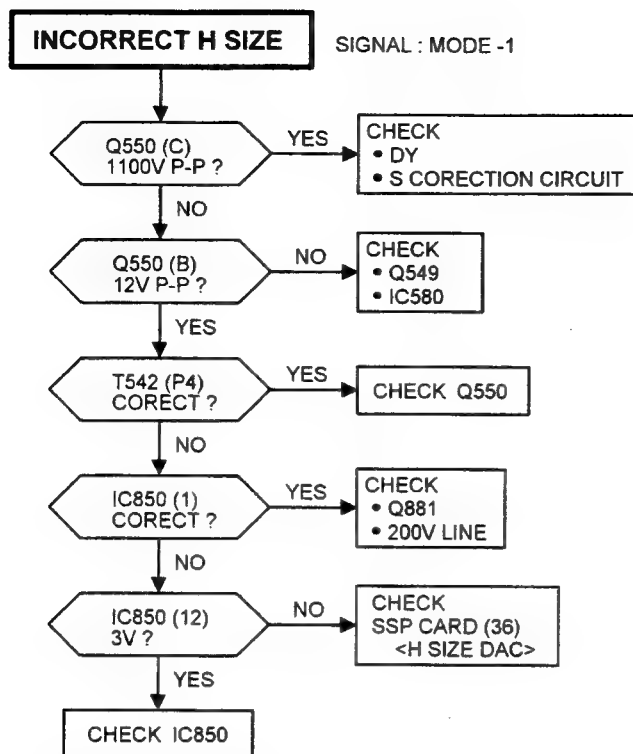
### NO POWER



Voltage of T823 (8)

AC Input	IC841 (D)
100V	121V
120V	149V
220V	275V
240V	309V

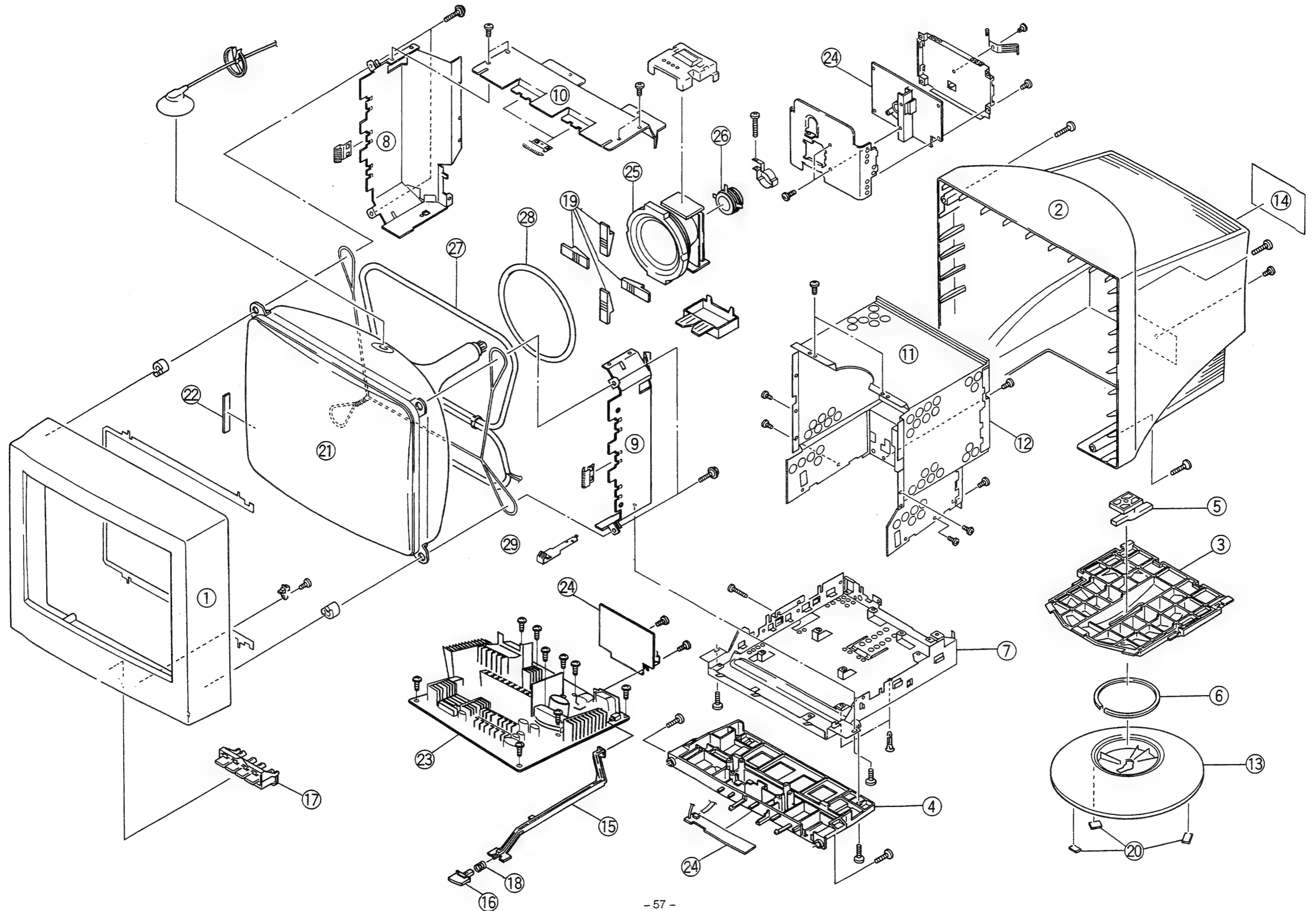




# MEMO


This image shows a full page of white paper with horizontal dashed lines, typical of primary school handwriting practice paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

# EXPLODED VIEW



## REPLACEMENT PARTSA LIST Ver.1.0

## – Important Safety Notice

Components identified by the International symbol  have special characteristics important for safety. When replacing any of these components use only manufacture's specified parts.

## RESISTOR

PART NAME & DESCRIPTION			
TYPE		ALLOWANCE	
C	Carbon	F	± 1%
F	Fuse	J	± 5%
M	Metal Oxide	K	± 10%
S	Solid	M	± 20%
W	Wire Wound	G	± 2%

	Part No.	Description	
Example:	ERD25TJ104 (C)	100K (J)	1/4W

**- NOTE**

When ordering a flyback transformer, the focus lead (red / white) and the anode lead should also be ordered, without fail.

## CAPACITOR

PART NAME & DESCRIPTION			
TYPE		ALLOWANCE	
C	Ceramic	C	$\pm 0.25\text{pF}$
E	Electrolytic	D	$\pm 0.5\text{pF}$
P	Polyester	F	$\pm 1\text{pF}$
S	Styrol	J	$\pm 5\%$
T	Tantalum	K	$\pm 10\%$
PP	Polypropylene	L	$\pm 15\%$
		M	$\pm 20\%$
		P	$+100\% - 0\%$
		Z	$+80\% - 20\%$

	Part No.	Description
Example:	ECKF1H103ZF (C)	0.01μF (Z) 50V

	Ref.No.	Part No.	Description		Ref.No.	Part No.	Description
		CABINET & MAIN PARTS					
△	1	TTYAO6701-3	ESCUTCHEON	△		TMM6463	CLAMPER
△	2	TKUC03572	REAR COVER	△		TMM81499	PUSH RIVET
△	3	TKSG001-A01	BOTTOM CABINET	△	19	TMM85576-1	CRT RUBBER
△	4	TKSG004-B01	BASE CABINET	△		TMM85586	RUBBER(WEDGE)
△		TKPA13801	FRONT PANEL	△		TMKE128	FERRITE STICK
△		TKKC5042	LED GUIDE	△		TMKG035	SPONGE
△		TKKL5019	BLIND COVER	△		TMKG067	RUBBER CUSHION(BIG)
△	5	TKKX5010	CENTER POST	△	20	TMK84990	SET LEG
△		TKKX5011-1	SPACER RING	△		TQFX040	CONDUCTIVE SHEET
△		TKK859745-9	CONNECTOR COVER	△		THT1028	SCREW(FOR CRT)
	7	TUAA06401-1	BOTTOM PLATE			THT1069	SCREW(FOR SHIELD CASE)
		TSAA3004	RADIATOR			XTB4+12J	SCREW
	8	TUCC5083-1	SHIELD CASE(CRT)R			XTN5+16LY	SCREW
	9	TUCC5084-1	SHIELD CASE(CRT)L			XTN5+25J	SCREW
	10	TUCC5085-1	SHIELD CASE BRACKET			XTV3+10A	SCREW
	11	TUCC5115	SHIELD CASE			XTV3+20J	SCREW
	12	TUCC5116-2	SHIELD CASE(REAR)			XTV3+8A	SCREW
△	13	TBLB3002-A01	PEDESTAL	△	21	M51KYY540X	COLOR PICTURE TUBE
△	14	TBMD286	MODEL NAME LABEL			TNPA0892-23	PC BOARD W/COMPONENT (SSP/TCO)
△	15	TBXA04401	POWER SWITCH SHAFT	△	23	TNPH0173-23	PC BOARD W/COMPONENT (MAIN)
△	16	TBXA09601	KNOB(POWER SWITCH)				
△	17	TBXA09701	KNOB(CONTROL)		24	TXANP4F63VLM	PC BOARD W/COMPONENT (VIDEO INPUT/CRT/KBD)
		TESA012	SPRING(CRT EARTH)				
		TESA046	SPRING(CRT EARTH,BOTTOM)		25	MEY51LHB4	DEFLECTION YOKE
	18	TESD008	SPRING(POWER SWITCH)	△	26	TLCB006-1	CONVERGENCE COIL
				△	27	TSPA026-6	DEGAUSS COIL
		TESH017	FBT SPRING				
△		TES8586	EARTH SPRING	△	28	TSPF004-2	TILT COIL
△		TMME023	TILT COIL CLAMPER(BIG)	△		TSXA023	POWER CORD<-M>
△		TMME034	PC BOARD SPACER	△		TSXA076	POWER CORD<-E>
△		TMME035	DEGAUSS COIL CLAMPER, SIDE	△		TSXF051-1	SIGNAL CORD
						TSXL030	FLAT CORD(5P)
△		TMME052	LEAD CLAMPER(SMALL)			TSXL055	FLAT CORD(20P)
△		TMME070	DEGAUSS COIL CLAMPER	△		TSXX075	SCREEN LEAD(RED)
△		TMM15404-1	SPACER RING	△			
△		TMM16452	TILT COIL CLAMPER	△			

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
△	TSXX076	FOCUS LEAD(RED)	Q12	2SD602R	TRANSISTOR
△	TSXX077	FOCUS LEAD(WHITE)	Q13	2SC4080DETD	TRANSISTOR
△	TSXX053	4P CONNECTOR ASSY	Q14	2SC4412-45	TRANSISTOR
△	TXA3A11F63NM	CRT EARTH LEAD	Q15	2SA1682-45	TRANSISTOR
	TSMAO03	MAGNET	Q106	2SC3938R	TRANSISTOR
	T4F31519Q	POLYESTER TAPE(50M)	Q110	2SC3938R	TRANSISTOR
	T4F72425Q	COTTON TAPE(55M)	Q280	2SA1739R	TRANSISTOR
	T4F90240	MAIRA TAPE	Q286	2SC3938R	TRANSISTOR
	TPCA62701	OUTER CARTON	Q379	2SC4081R	TRANSISTOR
	TXAPD2D2171B	FILLER(BOTTOM)	Q380	2SC4620V25	TRANSISTOR
	TXAPD2D2171T	FILLER(TOP)	Q381	2SA1576A	TRANSISTOR
	TPE894011-2	SET COVER	Q382	2SC1473AR	TRANSISTOR
	TQE8513-2	FUN BAG COVER	Q383	2SD1264PLB	TRANSISTOR
△	TQBEO261	INSTRUCTION BOOK	Q384	2SB940PLB	TRANSISTOR
	TQFA343	BAR CODE LABEL	Q510	2SC1473AR	TRANSISTOR
	TQFA360	WARNING LABEL	Q535	2SD1820AR	TRANSISTOR
	TQFA532	PTB LABEL(INNER)	Q536	2SB1219AQ	TRANSISTOR
	TQF83825-6	SERIAL NO. LABEL	Q549	2SK2588	TRANSISTOR
	TQF85363-1	CARTON LABEL<-M>	Q550	2SC54230O2FD	TRANSISTOR
	TQF85363-8	CARTON LABEL<-E>	Q560	UN5211AI	TRANSISTOR
△	TQF86608	EARTH CAUTION LABEL	Q562	UN5211AI	TRANSISTOR
	I.C		Q564	UN5211AI	TRANSISTOR
			Q566	UN5211AI	TRANSISTOR
IC31	AN5768	IC	Q575	2SC4081R	TRANSISTOR
IC101	CU32110A-107	IC	Q601	2SK2761-O1MR	TRANSISTOR
IC104	24LC08BTISN	IC	Q820	2SA733Q	TRANSISTOR
IC106	LF347MX	IC	Q821	2SK2148	TRANSISTOR
IC107	LF347MX	IC	Q827	2SA733Q	TRANSISTOR
			Q853	UN5211AI	TRANSISTOR
IC111	TC74HC14AF	IC	Q858	2SD1949Q	TRANSISTOR
IC120	NJM2904M	IC			
IC303	LF353MX	IC	Q859	UN5211AI	TRANSISTOR
IC491	LA7875N	IC	Q860	2SC3938R	TRANSISTOR
IC510	LA6500-FA	IC	Q864	2SB1219AQ	TRANSISTOR
			Q881	2SJ306MRB	TRANSISTOR
IC511	AN8025M	IC	Q882	2SB1219AQ	TRANSISTOR
IC512	NJM2904M	IC			
IC580	AN6531	IC	Q890	2SK1848	TRANSISTOR
IC671	TVSAO216	HYBRID IC	Q901	2SD1949Q	TRANSISTOR
IC672	NJM2904M	IC	Q902	UN5111AI	TRANSISTOR
			Q903	UN5211AI	TRANSISTOR
IC673	NJM2904M	IC	Q1002	2SC4270	TRANSISTOR
IC674	TA76431S	IC			
IC821	M62281FP	IC	Q1030	2SC4270	TRANSISTOR
IC830	M5F7812L	IC	Q1031	2SC4270	TRANSISTOR
IC831	SI-3025F	HYBRID IC	Q1032	2SA1764	TRANSISTOR
			Q1065	2SC4412-45	TRANSISTOR
IC832	AN78LO5	IC	Q1102	2SC4270	TRANSISTOR
IC833	AN79MO5F	IC			
IC841	MIPO223SCL	IC	Q1130	2SC4270	TRANSISTOR
IC850	M62501FP	IC	Q1131	2SC4270	TRANSISTOR
IC851	L78MRO5	IC	Q1132	2SA1764	TRANSISTOR
			Q1165	2SC4412-45	TRANSISTOR
IC852	TL431AIZ	IC	Q1202	2SC4270	TRANSISTOR
IC1301	M52741SP701	IC			
△	IC1302VP3628	HYBRID IC	Q1230	2SC4270	TRANSISTOR
	IC1303STK190-110	HYBRID IC	Q1231	2SC4270	TRANSISTOR
	IC1305TA76431S	IC	Q1232	2SA1764	TRANSISTOR
			Q1265	2SC4412-45	TRANSISTOR
IC1306L78MO9T		IC	Q1301	2SA1576A	TRANSISTOR
IC1321NJM2904M		IC			
IC1331MM74HCTOOMX		IC	Q1303	UN5211AI	TRANSISTOR
IC1381NJM2904M		IC	Q1345	UN5111AI	TRANSISTOR
IC1401LSC4385DW2		IC	Q1346	2SA1739R	TRANSISTOR
	TRANSISTORS		Q1370	2SC3938R	TRANSISTOR
			Q1371	2SC3757Q	TRANSISTOR
IC560	SLA5041	TRANSISTOR	Q1380	2SA1576A	TRANSISTOR
Q11	2SK1848	TRANSISTOR	Q1381	UN5211AI	TRANSISTOR

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
Q1382	2SA1767Q	TRANSISTOR	D865	ERC30-02	DIODE
Q1383	2SD1819AQ	TRANSISTOR	D866	ERC30-02	DIODE
	DIODES		D867	EG01A	DIODE
D10	MA8150M	DIODE	D868	RN3Z014-305	DIODE
D11	MA153A	DIODE	D869	MA111	DIODE
D12	MA4150NM	DIODE	D871	MA4180NM	DIODE
D13	MA174	DIODE	D872	MA4022L	DIODE
D14	MA111	DIODE	D873	MA748	DIODE
			D874	MA719	DIODE
D15	MA2330B	DIODE	D875	MA719	DIODE
D110	DTZTT115R6B	DIODE			
D129	MA357	DIODE	D876	MA719	DIODE
D211	MA8056M	DIODE	D878	MA748	DIODE
D212	MA8056M	DIODE	D890	MA142WK	DIODE
			D891	MA111	DIODE
D251	MA8056M	DIODE	D892	TVSD0003	DIODE
D252	MA8056M	DIODE			
D351	MA111	DIODE	D897	MA8150M	DIODE
D352	MA111	DIODE	D901	MA111	DIODE
D363	MA4390NM	DIODE	D902	TVSD0003	DIODE
			D953	MA4056NM	DIODE
D364	MA4390NM	DIODE	D978	MA4056NM	DIODE
D365	MA4390NM	DIODE			
D366	MA199	DIODE	D979	MA4056NM	DIODE
D410	ERA1502	DIODE	D990	SML1816W	DIODE(LED)
D411	ERA1502	DIODE	D993	MA8056H	DIODE
			D994	MA8056H	DIODE
D421	MA704	DIODE	D995	MA8056H	DIODE
D440	MA4051NM	DIODE			
D550	FMQ-G5GSLF	DIODE	D996	MA8056H	DIODE
D551	ERA81004	DIODE	D1011	MA111	DIODE
D552	MA111	DIODE	D1012	MA111	DIODE
			D1013	MA111	DIODE
D553	MA8150M	DIODE	D1020	MA111	DIODE
D575	MA4047NM	DIODE			
D577	MA111	DIODE	D1021	MA111	DIODE
D602	ESAC39M-06D	DIODE	D1030	DCC010	DIODE
D604	ERA92-02	DIODE	D1051	MA2Z001	DIODE
			D1052	MA2Z001	DIODE
D605	ERA92-02	DIODE	D1065	MA167A	DIODE
D651	MA167	DIODE			
D652	TVSAG01	DIODE	D1111	MA111	DIODE
D653	TVSAG01	DIODE	D1112	MA111	DIODE
D654	MA111	DIODE	D1113	MA111	DIODE
			D1120	MA111	DIODE
D673	MA165	DIODE	D1121	MA111	DIODE
D674	MA142WK	DIODE			
D680	MA4075NM	DIODE	D1130	DCC010	DIODE
D821	RBV606	DIODE	D1151	MA2Z001	DIODE
D822	RG2A2	DIODE	D1152	MA2Z001	DIODE
			D1165	MA167A	DIODE
D824	MA4300NM	DIODE	D1211	MA111	DIODE
D825	MA113	DIODE			
D826	MA165	DIODE	D1212	MA111	DIODE
D833	MA4082NM	DIODE	D1213	MA111	DIODE
D840	TAB101K201T	VARISTOR	D1220	MA111	DIODE
			D1221	MA111	DIODE
D841	EG01Z	DIODE	D1230	DCC010	DIODE
D842	MA4150NL	DIODE			
D843	ERA34-10	DIODE	D1251	MA2Z001	DIODE
D850	MA111	DIODE	D1252	MA2Z001	DIODE
D851	ERC91-02	DIODE	D1265	MA167A	DIODE
			D1301	MA142WA	DIODE
D855	MA4091NM	DIODE	D1324	MA4056NM	DIODE
D856	CB903-4	DIODE			
D857	MA111	DIODE	D1325	MA188	DIODE
D858	MA111	DIODE	D1326	MA111	DIODE
D861	EG01A	DIODE	D1331	MA111	DIODE
			D1340	MA4051NM	DIODE
D862	FML-S16S	DIODE	D1341	MA4051NM	DIODE
D863	TVSRG2	DIODE			
D864	FML-G02S	DIODE	D1342	MA4051NM	DIODE
			D1343	MA4051NM	DIODE

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
D1344	MA4051NM	DIODE	C16	ECUX1H102JCX	C 1000PF J 50V
D1345	MA4051NM	DIODE	C17	ECQE2104KF	P 0.1UF K 200V
D1346	MA4051NM	DIODE	C31	ECEA1HGE4R7	E 4.7UF 50V
D1347	MA8330M	DIODE	C32	ECEA1HGE4R7	E 4.7UF 50V
D1348	MA111	DIODE	C51	ECJ2VF1C105Z	C 1UF Z 16V
D1349	MA8330M	DIODE	C52	ECJ2VF1C105Z	C 1UF Z 16V
D1371	MA111	DIODE	C53	ECJ2VF1C105Z	C 1UF Z 16V
D1381	MA111	DIODE	C55	ECJ2VF1C105Z	C 1UF Z 16V
D1382	EU02Z	DIODE	C56	ECJ2VF1C105Z	C 1UF Z 16V
D1383	MA8100L	DIODE	C58	ECJ2VF1C105Z	C 1UF Z 16V
	COIL & TRANSFORMERS		C101	ECUX1H150JCN	C 15PF J 50V
L101	ELJFA5R6JB	CHIP COIL	C102	ECUX1H150JCN	C 15PF J 50V
△ L501	ELC18B272G	CHOKO COIL	C104	ECUX1H103KBB	C 0.01UF K 50V
L503	TLH85815T	COIL	C110	ECJ2VF1H104Z	C 0.1UF Z 50V
L530	ELEY102KA	PEAKING COIL	C111	ECA0JHG471	E 470UF 6.3V
L532	TLH85815T	COIL	C113	ECUX1C104KBB	C 0.1UF K 16V
L550	EXCELSA35T	LC COMBINATION	C114	ECUX1H102KBN	C 1000PF K 50V
L551	EXCELSA35T	LC COMBINATION	C115	ECUX1H102KBN	C 1000PF K 50V
△ L577	ELHKLBO30B	COIL	C117	ECJ2VF1H104Z	C 0.1UF Z 50V
△ L578	ELHKLBO31B	COIL	C118	ECJ2VF1H104Z	C 0.1UF Z 50V
L601	TLUADTB100K	PEAKING COIL	C119	ECUX1H222JCX	C 2200PF J 50V
L602	TLUACNB220K	PEAKING COIL	C122	ECUX1C105KBW	C 1UF K 16V
L603	TSK8029	FERRITE CORE	C123	ECJ2VF1H104Z	C 0.1UF Z 50V
L605	TSK8029	FERRITE CORE	C124	ECUX1H103KBB	C 0.01UF K 50V
L680	TSK8029	FERRITE CORE	C125	ECJ2VF1H104Z	C 0.1UF Z 50V
△ L801	ELF18D666V	LINE FILTER	C126	ECUX1H472KBB	C 4700PF K 50V
△ L802	ELF18D666V	LINE FILTER	C130	ECEV1CG100G	E 10UF 16V
L820	EXCELD35C	LC COMBINATION	C131	ECA0JHG471	E 470UF 6.3V
△ L850	TLP85708R	CHOKO COIL	C132	ECJ2VF1H104Z	C 0.1UF Z 50V
L861	TSK8029	FERRITE CORE	C133	ECEV1CG100G	E 10UF 16V
L862	TSK8029	FERRITE CORE	C134	ECJ2VF1H104Z	C 0.1UF Z 50V
L863	TSK8029	FERRITE CORE	C137	ECJ2VF1H104Z	C 0.1UF Z 50V
L864	TSK8029	FERRITE CORE	C138	ECEV1CG100G	E 10UF 16V
L865	TSK8029	FERRITE CORE	C139	ECJ2VF1H104Z	C 0.1UF Z 50V
L866	TSK8029	FERRITE CORE	C140	ECJ2VF1H104Z	C 0.1UF Z 50V
L868	TSK8029	FERRITE CORE	C141	ECJ2VF1H104Z	C 0.1UF Z 50V
L881	TLUACNB102J	PEAKING COIL	C143	ECUX1H101JCG	C 100PF J 50V
L898	TLUACNB102J	PEAKING COIL	C144	ECUX1H101JCG	C 100PF J 50V
L1320	EXCELD35C	LC COMBINATION	C145	ECJ2VF1H104Z	C 0.1UF Z 50V
L1321	TSKA092	FERRITE CORE	C151	ECJ2VF1H104Z	C 0.1UF Z 50V
L1322	TSKA092	FERRITE CORE	C152	ECJ2VF1H104Z	C 0.1UF Z 50V
L1323	TSKA092	FERRITE CORE	C153	ECUX1C224KBB	C 0.22UF K 16V
L1324	TSKA092	FERRITE CORE	C154	ECJ2VF1H104Z	C 0.1UF Z 50V
L1327	ELESN221KA	PEAKING COIL	C155	ECJ2VF1H104Z	C 0.1UF Z 50V
L1340	EXCELD35C	LC COMBINATION	C163	ECUX1H151JCG	C 150PF J 50V
L1341	EXCELD35C	LC COMBINATION	C164	ECUX1H151JCG	C 150PF J 50V
L1351	EXCELD35C	LC COMBINATION	C166	ECUX1H151JCG	C 150PF J 50V
L1352	EXCELD35C	LC COMBINATION	C167	ECUX1H151JCG	C 150PF J 50V
L1354	EXCELD35C	LC COMBINATION	C168	ECUX1H151JCG	C 150PF J 50V
L1401	ELEXH151KA	PEAKING COIL	C169	ECUX1C224KBB	C 0.22UF K 16V
△ T351	TLHG010	D.A.F. TRANSFORMER	C170	ECUX1H151JCG	C 150PF J 50V
△ T541	ETH19K179AM	H.DRIVE TRANSFORMER	C171	ECEV1CG470G	E 47UF 16V
△ T542	ETS29AC1Z9AC	TRANSFORMER	C173	ECJ2VF1H104Z	C 0.1UF Z 50V
△ T601	TLFA01365	FLYBACK TRANSFORMER	C174	ECA1CHG471	E 470UF 16V
△ T821	TLPA052	POWER TRANSFORMER	C179	ECJ2VF1H104Z	C 0.1UF Z 50V
△ T823	TLPA066	POWER TRANSFORMER(SUB)	C183	ECJ2VF1H104Z	C 0.1UF Z 50V
	CAPACITORS		C184	ECEV1CG100G	E 10UF 16V
C11	ECQV1H334JL	P 0.33UF J 50V	C185	ECJ2VF1H104Z	C 0.1UF Z 50V
C13	ECJ2VF1H104Z	C 0.1UF Z 50V	C186	ECEV1CG100G	E 10UF 16V
C14	ECJ2VF1H104Z	C 0.1UF Z 50V	C187	ECUX1H562JUW	C 5600PF J 50V
			C188	ECUX1H562JUW	C 5600PF J 50V
			C189	ECUX1H562JCW	C 5600PF J 50V

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
C190	ECUX1H562JCW	C 5600PF J 50V	C672	ECEA25V4R7T	E 4.7UF 25V
C196	ECUX1H101JCG	C 100PF J 50V	C674	ECQV1H105JL	P 1UF J 50V
C255	ECJ2VF1H104Z	C 0.1UF Z 50V	C675	ECQB1H104JF	P 0.1UF J 50V
C256	ECJ2VF1H104Z	C 0.1UF Z 50V	C682	ECJ2VF1H104Z	C 0.1UF Z 50V
C257	ECUX1H271JCG	C 270PF J 50V	C683	ECJ2VF1H104Z	C 0.1UF Z 50V
C258	ECUX1H121JCG	C 120PF J 50V	C684	ECJ2VF1H104Z	C 0.1UF Z 50V
C259	ECUX1H150JCN	C 15PF J 50V	C706	ECA1EEN100	E 10UF 25V
C280	ECA1HEN010	E 1UF 50V	△ C801	ECQU2A334MVZ	PP 0.33UF M 250V
C281	ECUX1H103KBG	C 0.01UF K 50V	△ C804	ECKDRS472MEY	C 4700PF M
C352	ECA2CHG100	E 10UF 160V	△ C805	ECKDRS472MEY	C 4700PF M
C353	ECQV1474JZ	P 0.47UF J 100V	△ C806	ECQU2A104MNF	PP 0.1UF M 250V
C369	ECA1HHG470	E 47UF 50V	△ C807	ECQU2A224MNF	PP 0.22UF M 250V
C370	ECUX1H361JCG	C 360PF J 50V	C819	ECQE2154KF	P 0.15UF K 200V
C371	ECKD2H471KBS	C 470PF K 500V	C820	ECUX1C105KBW	C 1UF K 16V
C372	ECUX1H080DCN	C 8PF D 50V	C821	TAC1094Z391A	E 390UF 400V
C373	ECEA2EGE100	E 10UF 250V	C822	ECQE2154KF	P 0.15UF K 200V
C375	ECUX1H103KBG	C 0.01UF K 50V	C823	ECKD3A271KBP	C 270PF K 1KV
C376	ECA1CHG221	E 220UF 16V	C825	ECEA1VGE330	E 33UF 35V
C377	ECEA1EGE330	E 33UF 25V	C828	ECUX1H222KBN	C 2200PF K 50V
C380	ECQE2104KF	P 0.1UF K 200V	△ C831	ECKDRS332MEY	C 3300PF M
C440	ECA1EHG222	E 2200UF 25V	△ C832	ECKDRS332MEY	C 3300PF M
C441	TACCC1H100MT	E 10UF 50V	C833	ECJ2VF1H104Z	C 0.1UF Z 50V
C443	ECUX1H123KBX	C 0.012UF K 50V	C834	ECUX1H222KBN	C 2200PF K 50V
C444	TACCC1H101MT	E 100UF 50V	C835	ECQB1H222JF	P 2200PF J 50V
C445	TACCC1H101MT	E 100UF 50V	C836	ECUX1H221KBN	C 220PF K 50V
C446	ECUX1H102KBN	C 1000PF K 50V	C837	ECEA1HGE2R2	E 2.2UF 50V
C447	ECA1EHG222	E 2200UF 25V	C839	ECUX1H222KBN	C 2200PF K 50V
C448	ECQV1473JM	P 0.047UF J 100V	C841	ECEA1EGE101	E 100UF 25V
C449	ECUX1H103KBG	C 0.01UF K 50V	C842	ECUX1H104ZFW	C 0.1UF Z 50V
C450	ECQE1224KF	P 0.22UF K 100V	C843	ECEA1EGE330	E 33UF 25V
C451	ECQE1563KF	P 0.056UF K 100V	C844	ECJ2VF1H104Z	C 0.1UF Z 50V
C501	TACBH2E224MT	C 0.22UF M 250V	C845	ECEA1EGE100	E 10UF 25V
C503	ECJ2VF1H104Z	C 0.1UF Z 50V	C846	ECUX1H822KBG	C 8200PF K 50V
C504	ECA2AHG100	E 10UF 100V	C848	ECEA1EGE330	E 33UF 25V
C505	ECJ2VF1C105Z	C 1UF Z 16V	C851	TACCC1C102MT	E 1000UF 16V
C506	ECJ2VF1H104Z	C 0.1UF Z 50V	C852	ECQE1474KF	P 0.47UF K 100V
C508	ECUX1E473KBX	C 0.047UF K 25V	C853	ECEA1CGE470	E 47UF 16V
C530	ECA2EHG2R2	E 2.2UF 250V	C858	ECJ2VF1H104Z	C 0.1UF Z 50V
C551	ECA1VHG101	E 100UF 35V	C859	ECA2EHG101	E 100UF 250V
C552	TACBN2A332KT	C 3300PF K 100V	C860	TACBK2A224MT	C 0.22UF M 100V
C553	ECWH20222HV	PP 2200PF H 1.5KV	C861	ECOS2EA221CB	E 220UF 250V
C554	ECWH20222HV	PP 2200PF H 1.5KV	C862	TACCC2A471MB	E 470UF 100V
C555	ECQE2335KF	P 3.3UF K 200V	C863	TAC11035102T	E 1000UF 35V
C561	ECWF2824HBB	PP 0.82UF H 200V	C864	TACCC1E222MT	E 2200UF 25V
C563	ECWF2364HBB	PP 0.36UF H 200V	C865	ECEA1CGE102	E 1000UF 16V
C565	ECWF2154HBB	PP 0.15UF H 200V	C866	ECEA1CGE102	E 1000UF 16V
C567	ECWF2185HBB	PP 1.8UF H 200V	C867	TACBK2A224MT	C 0.22UF M 100V
C568	ECWF2154HBB	PP 0.15UF H 200V	C868	ECEA1EGE222	E 2200UF 25V
C569	ECWF2154HBB	PP 0.15UF H 200V	C869	ECA1CHG331	E 330UF 16V
C574	ECKD2H102KBS	C 1000PF K 500V	C870	ECA1CHG331	E 330UF 16V
C575	ECKD2H102KBS	C 1000PF K 500V	C872	ECUX1C224KBW	C 0.22UF K 16V
C578	ECA1VHG470	E 47UF 35V	C874	ECA1HHG470	E 47UF 50V
C590	ECUX1H103KBG	C 0.01UF K 50V	C875	TACCB2A331MA	E 330UF 100V
C601	ECQF6102JZ	PP 1000PF J 600V	C876	ECUX1H103KBG	C 0.01UF K 50V
C602	ECQF6392JZ	PP 3900PF J 600V	C877	ECA1HHG220	E 22UF 50V
C651	ECEA1HGE4R7	E 4.7UF 50V	C878	ECA1CHG101	E 100UF 16V
C652	ECA2EHG100	E 10UF 250V	C879	ECA1EHG470	E 47UF 25V
C653	ECA2CHG100	E 10UF 160V	C880	ECEA1EGE220	E 22UF 25V
C654	ECA2CHG4R7	E 4.7UF 160V	C881	ECA1HHG100	E 10UF 50V
C655	ECQV1H225JL	P 2.2UF J 50V	C882	ECEA1HGE100	E 10UF 50V
C656	ECUX1H103KBG	C 0.01UF K 50V	C883	ECQB1H224JF	P 0.22UF J 50V
C657	ECUX1H103KBG	C 0.01UF K 50V	C884	ECUX1H102KBN	C 1000PF K 50V

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
C885	ECKD2H152KB5	C 1500PF K 500V	C1212	TACCLOJ227MT	E 220UF 6.3V
C886	ECUX1H222KBN	C 2200PF K 50V	C1213	ECUX1H103KBG	C 0.01UF K 50V
C887	ECUX1H681KBN	C 680PF K 50V	C1214	ECUX1H101JCG	C 100PF J 50V
C888	TACBU2E333KT	C 0.033UF K 250V	C1220	ECUX1H103KBG	C 0.01UF K 50V
C889	ECQE2684KF	P 0.68UF K 200V	C1221	ECA1HEN4R7	E 4.7UF 50V
C890	ECEA1HGE4R7	E 4.7UF 50V	C1222	ECUX1H103KBG	C 0.01UF K 50V
C891	TAC1102A331T	E 330UF 100V	C1230	ECUX1H103KBG	C 0.01UF K 50V
C893	ECUX1H561JCX	C 560PF J 50V	C1231	ECEA1EGE100	E 10UF 25V
C894	ECJ2VF1H104Z	C 0.1UF Z 50V	C1232	ECUX1H103KBG	C 0.01UF K 50V
C896	ECUX1E104KBX	C 0.1UF K 25V	C1233	ECUX1H103KBG	C 0.01UF K 50V
C897	ECUX1H472KBM	C 4700PF K 50V	C1234	ECJ2VF1C105Z	C 1UF Z 16V
C898	ECA2EHG470	E 47UF 250V	C1241	ECUX1H680GCG	C 68PF G 50V
C899	ECUX1E104KBX	C 0.1UF K 25V	C1242	ECUX1H150GCN	C 15PF G 50V
C902	ECUX1H104ZFW	C 0.1UF Z 50V	C1250	TACBN2A102KT	C 1000PF K 100V
C1011	ECUX1H103KBG	C 0.01UF K 50V	C1251	TACBN2A103KT	C 0.01UF K 100V
C1012	TACCLOJ227MT	E 220UF 6.3V	C1252	ECEA2AGE100	E 10UF 100V
C1013	ECUX1H103KBG	C 0.01UF K 50V	C1253	TACBH2A474MT	C 0.47UF M 100V
C1014	ECUX1H101JCG	C 100PF J 50V	C1255	TACBJ2H222KT	C 2200PF K 500V
C1020	ECUX1H103KBG	C 0.01UF K 50V	C1265	TACBG2E683KT	C 0.068UF K 250V
C1021	ECA1HEN4R7	E 4.7UF 50V	C1266	ECEA2CGE010	E 1UF 160V
C1022	ECUX1H103KBG	C 0.01UF K 50V	C1267	ECUX1H470JCG	C 47PF J 50V
C1030	ECUX1H103KBG	C 0.01UF K 50V	C1268	ECUX1H100CCN	C 10PF C 50V
C1031	ECEA1EGE100	E 10UF 25V	C1301	TACCL1C476MT	E 470UF 16V
C1032	ECUX1H103KBG	C 0.01UF K 50V	C1304	ECUX1H103KBG	C 0.01UF K 50V
C1033	ECUX1H103KBG	C 0.01UF K 50V	C1305	ECUX1H103KBG	C 0.01UF K 50V
C1034	ECJ2VF1C105Z	C 1UF Z 16V	C1310	TACCL1C476MT	E 470UF 16V
C1041	ECUX1H680GCG	C 68PF G 50V	C1312	TACCL1H105MT	E 1UF 50V
C1042	ECUX1H150GCN	C 15PF G 50V	C1313	ECEA1HGE100	E 10UF 50V
C1043	ECUX1H040CCN	C 4PF C 50V	C1314	ECJ2VF1H104Z	C 0.1UF Z 50V
C1050	TACBN2A102KT	C 1000PF K 100V	C1320	ECEA1CGE470	E 47UF 16V
C1051	TACBN2A103KT	C 0.01UF K 100V	C1321	ECUX1H103KBG	C 0.01UF K 50V
C1052	ECEA2AGE100	E 10UF 100V	C1322	ECA1HHG100	E 10UF 50V
C1053	TACBH2A474MT	C 0.47UF M 100V	C1323	ECUX1H103KBG	C 0.01UF K 50V
C1055	TACBJ2H222KT	C 2200PF K 500V	C1326	ECEA1CGE471	E 470UF 16V
C1065	TACBG2E683KT	C 0.068UF K 250V	C1327	ECUX1H103KBG	C 0.01UF K 50V
C1066	ECEA2CGE010	E 1UF 160V	C1328	ECEA1CGE471	E 470UF 16V
C1067	ECUX1H470JCG	C 47PF J 50V	C1329	ECEA1AGE101	E 100UF 10V
C1068	ECUX1H100CCN	C 10PF C 50V	C1331	ECEA1AGE101	E 100UF 10V
C1111	ECUX1H103KBG	C 0.01UF K 50V	C1332	ECJ2VF1E224Z	C 0.22UF Z 25V
C1112	TACCLOJ227MT	E 220UF 6.3V	C1333	ECUX1H103KBG	C 0.01UF K 50V
C1113	ECUX1H103KBG	C 0.01UF K 50V	C1334	ECEA1CGE470	E 47UF 16V
C1114	ECUX1H101JCG	C 100PF J 50V	C1335	ECEA1CGE470	E 47UF 16V
C1120	ECUX1H103KBG	C 0.01UF K 50V	C1336	ECEA1CGE470	E 47UF 16V
C1121	ECA1HEN4R7	E 4.7UF 50V	C1340	TCUX1C225ZFN	C 2.2UF Z 16V
C1122	ECUX1H103KBG	C 0.01UF K 50V	C1342	ECEA2AGE220	E 22UF 100V
C1130	ECUX1H103KBG	C 0.01UF K 50V	C1344	ECUX1H102KBN	C 1000PF K 50V
C1131	ECEA1EGE100	E 10UF 25V	C1345	ECJ2VF1H104Z	C 0.1UF Z 50V
C1132	ECUX1H103KBG	C 0.01UF K 50V	C1346	ECEA1EGE100	E 10UF 25V
C1133	ECUX1H103KBG	C 0.01UF K 50V	C1348	ECEA2CGE100	E 10UF 160V
C1134	ECJ2VF1C105Z	C 1UF Z 16V	C1349	TCUX1C225ZFN	C 2.2UF Z 16V
C1141	ECUX1H680GCG	C 68PF G 50V	C1351	TACBJ2H222KT	C 2200PF K 500V
C1142	ECUX1H150GCN	C 15PF G 50V	C1355	TACBJ2H102KT	C 1000PF K 500V
C1143	ECUX1H030CCN	C 3PF C 50V	C1356	TACBJ2H101KT	C 100PF K 500V
C1150	TACBN2A102KT	C 1000PF K 100V	C1357	ECKD3D272KBP	C 2700PF K 2K V
C1151	TACBN2A103KT	C 0.01UF K 100V	C1358	TACBJ2J222KT	C 2200PF K 630V
C1153	TACBH2A474MT	C 0.47UF M 100V	C1359	TACBJ2J222KT	C 2200PF K 630V
C1155	TACBJ2H222KT	C 2200PF K 500V	C1360	TACBJ2J222KT	C 2200PF K 630V
C1165	TACBG2E683KT	C 0.068UF K 250V	C1365	TCUX2H110JCM	C 11PF J 500V
C1166	ECEA2CGE010	E 1UF 160V	C1370	TACBJ2H102KT	C 1000PF K 500V
C1167	ECUX1H470JCG	C 47PF J 50V	C1372	ECUX1H221KBN	C 220PF K 50V
C1168	ECUX1H100CCN	C 10PF C 50V	C1381	ECJ2VF1H104Z	C 0.1UF Z 50V
C1211	ECUX1H103KBG	C 0.01UF K 50V	C1391	TACBG2E683KT	C 0.068UF K 250V

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
C1402	ECUX1H223K BX	C 0.022UF K 50V	J1302	ERD25TCO	C 0 OHM 1/4W
C1403	ECJ2VF1E224Z	C 0.22UF Z 25V	J1321	ERD25TCO	C 0 OHM 1/4W
C1404	ECUX1H221K BN	C 220PF K 50V	J1325	ERJ6GEYOR00	M 0 OHM 1/10W
C1405	ECUX1H104K BW	C 0.1UF K 50V	L1056	ERJ8GCRYOR00	M 0 OHM 1/8W
C1406	ECEA1AGE101	E 100UF 10V	L1156	ERJ8GCRYOR00	M 0 OHM 1/8W
C1408	ECUX1H220J CN	C 22PF J 50V	L1256	ERJ8GCRYOR00	M 0 OHM 1/8W
C1409	ECJ2VF1C105Z	C 1UF Z 16V	R10	ERDS2TJ101	C 100 OHM J 1/4W
C1410	ECEA1EGE100	E 10UF 25V	R11	ERJ6ENF1002	M 10K OHM F 1/10W
C1412	ECEA1HGE3R3	E 3.3UF 50V	R12	ERJ6ENF4703	M 470K OHM F 1/10W
C1414	ECEA1HGE3R3	E 3.3UF 50V	R13	ERJ6ENF1052	M 10.5K OHM F 1/10W
RESISTORS			R14	ERJ6ENF3301	M 3.3K OHM F 1/10W
C1003	ERJ6GEYOR00	M 0 OHM 1/10W	R15	ERG2SJ183	M 18K OHM J 2W
C1203	ERJ6GEYOR00	M 0 OHM 1/10W	R16	ERJ6ENF2320	M 232 OHM F 1/10W
C1353	ERJ8GCRYOR00	M 0 OHM 1/8W	R18	ERG1SJ273	M 27K OHM J 1W
D1501	ERJ6GEYOR00	M 0 OHM 1/10W	R19	ERJ6ENF4702	M 47K OHM F 1/10W
J601	ERJ6GEYOR00	M 0 OHM 1/10W	R20	ERJ6ENF4702	M 47K OHM F 1/10W
J602	ERJ6GEYOR00	M 0 OHM 1/10W	R22	ERJ6GEYOR00	M 0 OHM 1/10W
J603	ERJ6GEYOR00	M 0 OHM 1/10W	R23	ERJ6GEYJ105	M 1M OHM J 1/10W
J604	ERJ6GEYOR00	M 0 OHM 1/10W	R24	ERJ6ENF4703	M 470K OHM F 1/10W
J605	ERJ6GEYOR00	M 0 OHM 1/10W	R25	ERJ6ENF1000	M 100 OHM F 1/10W
J606	ERJ6GEYOR00	M 0 OHM 1/10W	R26	ERJ6GEYJ333	M 33K OHM J 1/10W
J607	ERJ6GEYOR00	M 0 OHM 1/10W	R31	ERJ6GEYJ102	M 1K OHM J 1/10W
J608	ERJ6GEYOR00	M 0 OHM 1/10W	R32	ERJ8GCRYK2R7	M 2.7 OHM K 1/8W
J609	ERJ6GEYOR00	M 0 OHM 1/10W	R33	ERG1SJ100	M 10 OHM J 1W
J610	ERJ6GEYOR00	M 0 OHM 1/10W	R51	ERJ6GEYJ102	M 1K OHM J 1/10W
J701	ERJ8GCRYOR00	M 0 OHM 1/8W	R52	ERJ6GEYJ102	M 1K OHM J 1/10W
J702	ERJ8GCRYOR00	M 0 OHM 1/8W	R53	ERJ6GEYJ102	M 1K OHM J 1/10W
J703	ERJ8GCRYOR00	M 0 OHM 1/8W	R55	ERJ6GEYJ102	M 1K OHM J 1/10W
J704	ERJ8GCRYOR00	M 0 OHM 1/8W	R56	ERJ6GEYJ102	M 1K OHM J 1/10W
J705	ERJ8GCRYOR00	M 0 OHM 1/8W	R58	ERJ6GEYJ102	M 1K OHM J 1/10W
J706	ERJ8GCRYOR00	M 0 OHM 1/8W	R104	ERJ6GEYJ222	M 2.2K OHM J 1/10W
J707	ERJ8GCRYOR00	M 0 OHM 1/8W	R105	ERJ6GEYJ222	M 2.2K OHM J 1/10W
J708	ERJ8GCRYOR00	M 0 OHM 1/8W	R109	ERJ6GEYJ103	M 10K OHM J 1/10W
J709	ERJ8GCRYOR00	M 0 OHM 1/8W	R110	ERJ6GEYJ103	M 10K OHM J 1/10W
J710	ERJ8GCRYOR00	M 0 OHM 1/8W	R111	ERJ6GEYJ152	M 1.5K OHM J 1/10W
J712	ERJ8GCRYOR00	M 0 OHM 1/8W	R112	ERJ6GEYJ122	M 1.2K OHM J 1/10W
J713	ERJ8GCRYOR00	M 0 OHM 1/8W	R115	ERJ6GEYOR00	M 0 OHM 1/10W
J714	ERJ8GCRYOR00	M 0 OHM 1/8W	R120	ERJ6GEYJ272	M 2.7K OHM J 1/10W
J715	ERJ8GCRYOR00	M 0 OHM 1/8W	R121	ERJ6GEYJ822	M 8.2K OHM J 1/10W
J716	ERJ8GCRYOR00	M 0 OHM 1/8W	R123	ERJ6GEYJ122	M 1.2K OHM J 1/10W
J717	ERJ8GCRYOR00	M 0 OHM 1/8W	R124	ERJ6GEYJ392	M 3.9K OHM J 1/10W
J718	ERJ8GCRYOR00	M 0 OHM 1/8W	R125	ERJ6GEYJ335	M 3.3M OHM J 1/10W
J719	ERJ8GCRYOR00	M 0 OHM 1/8W	R127	ERJ6GEYOR00	M 0 OHM 1/10W
J721	ERJ8GCRYOR00	M 0 OHM 1/8W	R131	ERJ6GEYJ272	M 2.7K OHM J 1/10W
J722	ERJ8GCRYOR00	M 0 OHM 1/8W	R132	ERJ6GEYJ272	M 2.7K OHM J 1/10W
J724	ERJ8GCRYOR00	M 0 OHM 1/8W	R133	ERJ6GEYOR00	M 0 OHM 1/10W
J725	ERJ8GCRYOR00	M 0 OHM 1/8W	R134	ERJ6GEYOR00	M 0 OHM 1/10W
J726	ERJ8GCRYOR00	M 0 OHM 1/8W	R135	ERJ6GEYJ471	M 470 OHM J 1/10W
J727	ERJ8GCRYOR00	M 0 OHM 1/8W	R136	ERJ6GEYJ101	M 100 OHM J 1/10W
J729	ERJ8GCRYOR00	M 0 OHM 1/8W	R137	ERJ6GEYJ101	M 100 OHM J 1/10W
J730	ERJ8GCRYOR00	M 0 OHM 1/8W	R140	ERJ6GEYJ103	M 10K OHM J 1/10W
J731	ERJ8GCRYOR00	M 0 OHM 1/8W	R141	ERJ6GEYJ103	M 10K OHM J 1/10W
J732	ERJ8GCRYOR00	M 0 OHM 1/8W	R142	ERJ6GEYJ103	M 10K OHM J 1/10W
J733	ERJ8GCRYOR00	M 0 OHM 1/8W	R145	ERJ6GEYJ103	M 10K OHM J 1/10W
J734	ERJ8GCRYOR00	M 0 OHM 1/8W	R146	ERJ6GEYJ103	M 10K OHM J 1/10W
J735	ERJ8GCRYOR00	M 0 OHM 1/8W	R149	ERJ6GEYJ183	M 18K OHM J 1/10W
J736	ERJ8GCRYOR00	M 0 OHM 1/8W	R150	ERJ6GEYJ222	M 2.2K OHM J 1/10W
J737	ERJ8GCRYOR00	M 0 OHM 1/8W	R151	ERJ6GEYJ222	M 2.2K OHM J 1/10W
J738	ERJ8GCRYOR00	M 0 OHM 1/8W	R152	ERJ12YJ471	M 470 OHM J 1/2W
J739	ERJ8GCRYOR00	M 0 OHM 1/8W	R153	ERJ6GEYJ222	M 2.2K OHM J 1/10W
J1301	ERD25TCO	C 0 OHM 1/4W	R154	ERJ6GEYJ102	M 1K OHM J 1/10W
			R155	ERJ6GEYJ472	M 4.7K OHM J 1/10W

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
R156	ERJ6GEYJ472	M 4.7K OHM J 1/10W	R373	ERJ8GCVJ683	M 68K OHM J 1/8W
R162	ERJ6GEYJ152	M 1.5K OHM J 1/10W	R374	ERJ8ENF1101	M 1.1K OHM F 1/8W
R163	ERJ6GEYJ683	M 68K OHM J 1/10W	R375	ERJ6GEYJ472	M 4.7K OHM J 1/10W
R164	ERJ6GEYJ102	M 1K OHM J 1/10W	R380	ERD25FJ102K	C 1K OHM J 1/4W
R165	ERJ6GEYOR00	M 0 OHM 1/10W	R381	ERJ6ENF2051	M 2.05K OHM F 1/10W
R170	ERJ6ENF2202	M 22K OHM F 1/10W	R382	ERJ6ENF6982	M 69.8K OHM F 1/10W
R171	ERJ6ENF5622	M 56.2K OHM F 1/10W	R384	ERJ6ENF2871	M 2.87K OHM F 1/10W
R172	ERJ6ENF5622	M 56.2K OHM F 1/10W	R385	ERJ8GCVJ121	M 120 OHM J 1/8W
R173	ERJ6ENF6802	M 68K OHM F 1/10W	R386	ERG3FJ103	M 10K OHM J 3W
R174	ERJ6GEYJ270	M 27 OHM J 1/10W	R387	ERJ8GCVJ302	M 3K OHM J 1/8W
R175	ERJ6GEYJ270	M 27 OHM J 1/10W	R389	ERJ8GCVJ102	M 1K OHM J 1/8W
R177	ERJ6GEYOR00	M 0 OHM 1/10W	R390	ERJ6ENF1071	M 1.07K OHM F 1/10W
R188	ERJ6GEYJ103	M 10K OHM J 1/10W	R391	ERJ6GEYJ103	M 10K OHM J 1/10W
R191	ERJ6GEYJ271	M 270 OHM J 1/10W	R392	ERJ6GEYJ562	M 5.6K OHM J 1/10W
R192	ERJ6GEYJ271	M 270 OHM J 1/10W	R393	ERG1SJ273	M 27K OHM J 1W
R193	ERJ6GEYJ471	M 470 OHM J 1/10W	R407	ERJ6ENF2702	M 27K OHM F 1/10W
R194	ERJ6GEYJ222	M 2.2K OHM J 1/10W	R425	ERDS2TJ182	C 1.8K OHM J 1/4W
R195	ERJ6GEYJ222	M 2.2K OHM J 1/10W	R440	ERJ6GEYJ103	M 10K OHM J 1/10W
R196	ERJ6GEYJ471	M 470 OHM J 1/10W	R441	ERJ6GEYJ103	M 10K OHM J 1/10W
R197	ERJ6GEYJ103	M 10K OHM J 1/10W	R442	ERJ6GEYJ332	M 3.3K OHM J 1/10W
R200	ERJ6GEYJ471	M 470 OHM J 1/10W	R480	ERJ6ENF1742	M 17.4K OHM F 1/10W
R201	ERJ6GEYJ101	M 100 OHM J 1/10W	R481	ERJ6ENF2941	M 2.94K OHM F 1/10W
R204	ERJ6GEYJ471	M 470 OHM J 1/10W	R482	ERDS1FJ1R2	C 1.2 OHM J 1/2W
R205	ERJ6GEYJ101	M 100 OHM J 1/10W	R483	ERDS1FJ1R2	C 1.2 OHM J 1/2W
R208	ERJ6GEYJ471	M 470 OHM J 1/10W	R484	EROS2CKF1202	M 12K OHM F 1/4W
R209	ERJ6GEYJ471	M 470 OHM J 1/10W	R485	ERJ6GEYJ122	M 1.2K OHM J 1/10W
R210	ERJ6GEYJ472	M 4.7K OHM J 1/10W	R486	ERJ6ENF1872	M 18.7K OHM F 1/10W
R213	ERJ6GEYOR00	M 0 OHM 1/10W	R487	ERDS2TJ1R0	C 1 OHM J 1/4W
R214	ERJ6GEYOR00	M 0 OHM 1/10W	R488	ERX1SG1R2	M 1.2 OHM G 1W
R221	ERJ6GEYOR00	M 0 OHM 1/10W	R489	ERX1SG1R8	M 1.8 OHM G 1W
R222	ERJ6GEYJ103	M 10K OHM J 1/10W	R501	ERX2SJ3R3	M 3.3 OHM J 2W
R223	ERJ6GEYJ123	M 12K OHM J 1/10W	R502	ERG1SJ390	M 39 OHM J 1W
R224	ERJ6GEYJ563	M 56K OHM J 1/10W	R503	ERJ6GEYJ472	M 4.7K OHM J 1/10W
R240	ERJ6GEYJ271	M 270 OHM J 1/10W	R504	ERJ6GEYJ153	M 15K OHM J 1/10W
R241	ERJ6GEYJ271	M 270 OHM J 1/10W	R505	ERX2SJ3R3	M 3.3 OHM J 2W
R242	ERJ6GEYJ222	M 2.2K OHM J 1/10W	R506	ERD25FJ153K	C 15K OHM J 1/4W
R243	ERJ6GEYJ222	M 2.2K OHM J 1/10W	R507	ERJ6GEYJ392	M 3.9K OHM J 1/10W
R250	ERJ6GEYOR00	M 0 OHM 1/10W	R508	ERJ6GEYJ102	M 1K OHM J 1/10W
R255	ERJ6GEYJ272	M 2.7K OHM J 1/10W	R509	ERJ6GEYJ472	M 4.7K OHM J 1/10W
R256	ERJ6GEYJ121	M 120 OHM J 1/10W	R527	ERJ6GEYOR00	M 0 OHM 1/10W
R257	ERJ6GEYJ222	M 2.2K OHM J 1/10W	R530	ERQ12AJ270	F 27 OHM J 1/2W
R258	ERJ6GEYJ561	M 560 OHM J 1/10W	R531	ERJ12YJ5R6	M 5.6 OHM J 1/2W
R261	ERJ6GEYJ683	M 68K OHM J 1/10W	R532	ERJ12YJ5R6	M 5.6 OHM J 1/2W
R275	ERJ6GEYJ223	M 22K OHM J 1/10W	R542	ERJ6ENF5601	M 5.6K OHM F 1/10W
R276	ERJ6GEYJ223	M 22K OHM J 1/10W	R543	ERJ6ENF6491	M 6.49K OHM F 1/10W
R280	ERJ6GEYJ152	M 1.5K OHM J 1/10W	R544	ERJ6ENF1502	M 15K OHM F 1/10W
R281	ERJ6GEYJ104	M 100K OHM J 1/10W	R545	ERG3FJ470	M 47 OHM J 3W
R282	ERJ6GEYJ102	M 1K OHM J 1/10W	R546	ERG3FJ470	M 47 OHM J 3W
R283	ERJ6GEYOR00	M 0 OHM 1/10W	R547	ERJ6GEYJ470	M 47 OHM J 1/10W
R284	ERJ6GEYOR00	M 0 OHM 1/10W	R548	ERJ6GEYJ332	M 3.3K OHM J 1/10W
R285	ERJ6GEYJ102	M 1K OHM J 1/10W	R549	ERG2SJ561	M 560 OHM J 2W
R286	ERJ6GEYJ561	M 560 OHM J 1/10W	R550	ERQ12AJR47	F 0.47 OHM J 1/2W
R291	ERJ6GEYJ223	M 22K OHM J 1/10W	R551	ERX3FJX1R8D	M 1.8 OHM J 3W
R292	ERJ6GEYJ223	M 22K OHM J 1/10W	R552	ERX3FJX1R8D	M 1.8 OHM J 3W
R293	ERJ6GEYJ102	M 1K OHM J 1/10W	R554	ERX3FJX6R8D	M 6.8 OHM J 3W
R294	ERJ6GEYJ102	M 1K OHM J 1/10W	R555	ERD25TC0	C 0 OHM 1/4W
R350	ERQ14AJ330	F 33 OHM J 1/4W	R560	ERJ6GEYJ472	M 4.7K OHM J 1/10W
R353	ERDS1FJ100	C 10 OHM J 1/2W	R561	ERJ6GEYJ100	M 10 OHM J 1/10W
R354	ERDS1FJ100	C 10 OHM J 1/2W	R563	ERJ6GEYJ472	M 4.7K OHM J 1/10W
R355	ERG2SJ270	M 27 OHM J 2W	R564	ERJ6GEYJ100	M 10 OHM J 1/10W
R371	ERDS1FJ364	C 360K OHM J 1/2W	R566	ERJ6GEYJ472	M 4.7K OHM J 1/10W
R372	ERJ8GCVJ475	M 4.7M OHM J 1/8W	R567	ERJ6GEYJ100	M 10 OHM J 1/10W

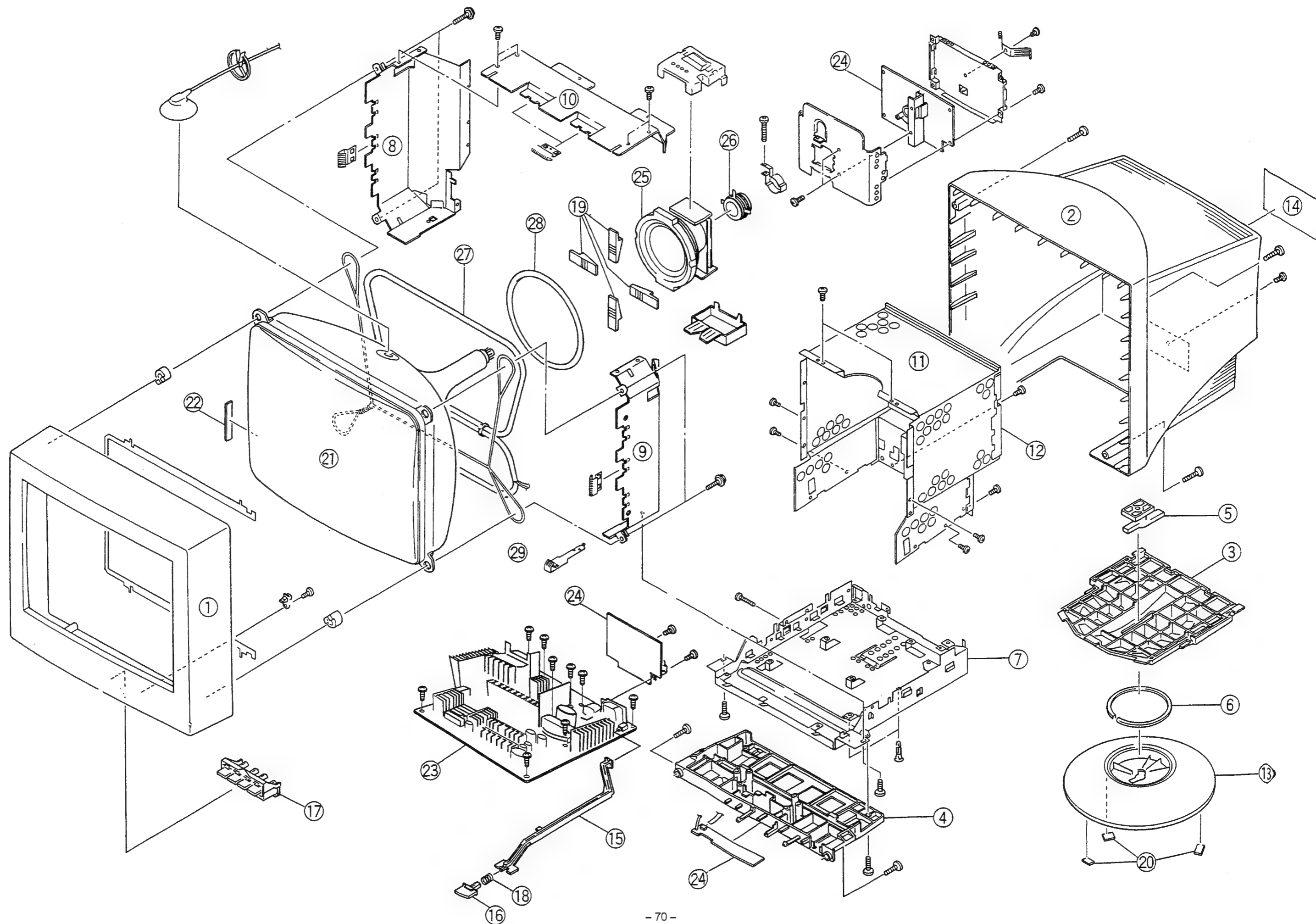
Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
R568	ERJ6GEYJ472	M 4.7K OHM J 1/10W	R850	ERJ6GEYJ102	M 1K OHM J 1/10W
R569	ERJ6GEYJ100	M 10 OHM J 1/10W	R853	ERJ6GEYJ271	M 270 OHM J 1/10W
R574	ERDS1FJ181	C 180 OHM J 1/2W	R854	ERJ6GEYJ820	M 82 OHM J 1/10W
R575	ERQ12AJ271	F 270 OHM J 1/2W	R855	ERJ6GEYJ102	M 1K OHM J 1/10W
R595	ERJ6GEYJ562	M 5.6K OHM J 1/10W	R856	ERA6YEB104	M 100K OHM B 1/10W
R596	ERJ6GEYJ562	M 5.6K OHM J 1/10W	R857	ERA6YEB302	M 3K OHM B 1/10W
R597	ERJ6GEYJ562	M 5.6K OHM J 1/10W	R858	ERJ6GEYJ102	M 1K OHM J 1/10W
R602	ERX1SJR33	M 0.33 OHM J 1W	R859	ERD25FJ391K	C 390 OHM J 1/4W
R603	ERX1SJR39	M 0.39 OHM J 1W	R860	ERJ6GEYJ103	M 10K OHM J 1/10W
R604	TARRS5B101J2	M 100 OHM J 5W	R861	ERQ12AJR33HK	F 0.33 OHM J 1/2W
R605	TARRS5B101J2	M 100 OHM J 5W	R862	TAR14CJOR15V	M 0.15 OHM J 1/2W
R606	ERJ6GEYJ220	M 22 OHM J 1/10W	R863	ERQ12AJR47	F 0.47 OHM J 1/2W
R648	ERJ6ENF8060	M 806 OHM F 1/10W	R864	ERQ12AJR12HK	F 0.12 OHM J 1/2W
R649	ERJ6GEYOR00	M 0 OHM 1/10W	R865	ERQ12AJR12HK	F 0.12 OHM J 1/2W
R650	ERJ8GCVOR00	M 0 OHM 1/8W	R866	ERQ12AJR12HK	F 0.12 OHM J 1/2W
R651	ERQ14AJ100	F 10 OHM J 1/4W	R867	ERJ6GEYJ104	M 100K OHM J 1/10W
R652	ERQ14AJR47HK	F 0.47 OHM J 1/4W	R868	ERQ12AJR47	F 0.47 OHM J 1/2W
R653	ERQ14AJR47HK	F 0.47 OHM J 1/4W	R869	ERD25FJ471K	C 470 OHM J 1/4W
R655	ERJ8ENF5231	M 5.23K OHM F 1/8W	R870	ERDS1FJ224	C 220K OHM J 1/2W
R656	ERJ6GEYJ223	M 22K OHM J 1/10W	R871	ERJ6GEYJ183	M 18K OHM J 1/10W
R657	ERJ6ENF3162	M 31.6K OHM F 1/10W	R872	ERJ6ENF1822	M 18.2K OHM F 1/10W
R658	ERJ6ENF1002	M 10K OHM F 1/10W	R873	ERJ6ENF4222	M 42.2K OHM F 1/10W
R660	ERJ6GEYJ270	M 27 OHM J 1/10W	R874	ERJ6GEYJ101	M 100 OHM J 1/10W
R671	EROS2CKF1333	M 133K OHM F 1/4W	R875	ERJ6GEYJ102	M 1K OHM J 1/10W
R672	EROS2CKF1433	M 143K OHM F 1/4W	R876	ERJ6GEYJ562	M 5.6K OHM J 1/10W
R673	ERDS2TJ474	C 470K OHM J 1/4W	R877	ERJ6GEYJ753	M 75K OHM J 1/10W
R680	ERJ6GEYJ153	M 15K OHM J 1/10W	R878	ERG1SJ683	M 68K OHM J 1W
R682	ERJ6GEYJ221	M 220 OHM J 1/10W	R879	ERJ8GCVJ332	M 3.3K OHM J 1/8W
R683	ERJ6GEYJ562	M 5.6K OHM J 1/10W	R880	EROS2CKF1211	M 1.21K OHM F 1/4W
R684	ERJ6ENF1002	M 10K OHM F 1/10W	R881	ERJ6ENF1821	M 1.82K OHM F 1/10W
R685	ERJ6ENF2372	M 23.7K OHM F 1/10W	R882	ERJ6ENF4531	M 4.53K OHM F 1/10W
R687	ERJ6GEYJ333	M 33K OHM J 1/10W	R883	ERJ6GEYJ103	M 10K OHM J 1/10W
R720	ERJ6GEYJ682	M 6.8K OHM J 1/10W	R884	ERJ6ENF6041	M 6.04K OHM F 1/10W
R721	ERJ6GEYJ164	M 160K OHM J 1/10W	R885	ERJ6ENF3741	M 3.74K OHM F 1/10W
R722	ERJ6GEYJ182	M 1.8K OHM J 1/10W	R886	ERJ6GEYJ103	M 10K OHM J 1/10W
R801	ERC12AGK105	S 1M OHM K 1/2W	R887	ERJ6GEYJ103	M 10K OHM J 1/10W
R820	ERJ6GEYJ563	M 56K OHM J 1/10W	R888	ERJ6GEYJ103	M 10K OHM J 1/10W
R821	ERF2EKR22	W 0.22 OHM K 2W	R889	ERJ6GEYJ391	M 390 OHM J 1/10W
R822	TARRS3B104J2	M 100K OHM J 3W	R890	ERX2SJ1R0	M 1 OHM J 2W
R823	ERJ6GEYJ103	M 10K OHM J 1/10W	R891	ERJ6GEYJ103	M 10K OHM J 1/10W
R824	ERJ6ENF1211	M 1.21K OHM F 1/10W	R892	ERJ6ENF4420	M 442 OHM F 1/10W
R825	ERJ6GEYJ682	M 6.8K OHM J 1/10W	R893	ERDS1FJ224	C 220K OHM J 1/2W
R826	ERJ6ENF7152	M 71.5K OHM F 1/10W	R894	ERJ6GEYJ102	M 1K OHM J 1/10W
R827	ERDS1FJ394	C 390K OHM J 1/2W	R895	ERJ6GEYJ101	M 100 OHM J 1/10W
R828	ERDS1FJ394	C 390K OHM J 1/2W	R896	ERJ6GEYJ332	M 3.3K OHM J 1/10W
R829	ERJ8GCVJ223	M 22K OHM J 1/8W	R897	ERJ6GEYJ225	M 2.2M OHM J 1/10W
R830	ERJ6GEYJ273	M 27K OHM J 1/10W	R898	ERJ6ENF2001	M 2K OHM F 1/10W
R831	ERD25FJ560K	C 56 OHM J 1/4W	R899	ERJ6GEYJ103	M 10K OHM J 1/10W
R832	ERJ6GEYJ220	M 22 OHM J 1/10W	R902	ERJ6GEYJ103	M 10K OHM J 1/10W
R833	ERD25FJ223K	C 22K OHM J 1/4W	R903	ERJ6GEYJ102	M 1K OHM J 1/10W
R834	ERJ8GCVJ222	M 2.2K OHM J 1/8W	R905	ERJ6GEYJ331	M 330 OHM J 1/10W
R835	ERJ8GCVJ222	M 2.2K OHM J 1/8W	R906	ERJ6GEYJ331	M 330 OHM J 1/10W
R836	ERG3FJ820	M 82 OHM J 3W	R909	ERJ6GEYJ562	M 5.6K OHM J 1/10W
R837	ERJ6ENF1400	M 140 OHM F 1/10W	R913	ERJ6GEYJ562	M 5.6K OHM J 1/10W
R838	ERJ6GEYJ222	M 2.2K OHM J 1/10W	R961	ERJ6GEYOR00	M 0 OHM 1/10W
R839	ERJ6GEYJ332	M 3.3K OHM J 1/10W	R975	ERJ6GEYJ101	M 100 OHM J 1/10W
R840	ERJ6GEYJ103	M 10K OHM J 1/10W	R978	ERJ6GEYJ101	M 100 OHM J 1/10W
R841	ERDS1FJ104	C 100K OHM J 1/2W	R979	ERJ6GEYJ101	M 100 OHM J 1/10W
R842	ERJ6GEYJ180	M 18 OHM J 1/10W	R988	ERJ6GEYJ102	M 1K OHM J 1/10W
R843	ERJ6GEYJ103	M 10K OHM J 1/10W	R990	ERDS2TJ103	C 10K OHM J 1/4W
R847	ERJ6GEYK2R2	M 2.2 OHM K 1/10W	R991	ERDS2TJ103	C 10K OHM J 1/4W
R849	ERDS2TJ122	C 1.2K OHM J 1/4W	R992	ERJ6GEYOR00	M 0 OHM 1/10W

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
R993	ERJ6GEYOR00	M 0 OHM 1/10W	R1230	ERJ6GEYJ330	M 33 OHM J 1/10W
R1007	ERJ6ENF11R5	M 11.5 OHM F 1/10W	R1231	ERJ6GEYJ331	M 330 OHM J 1/10W
R1011	TAJADQ76R8FV	M 76.8 OHM F 1/3W	R1232	ERJ6GEYJ100	M 10 OHM J 1/10W
R1012	ERJ6GEYJ223	M 22K OHM J 1/10W	R1233	ERJ6GEYJ330	M 33 OHM J 1/10W
R1013	ERJ6GEYJ123	M 12K OHM J 1/10W	R1240	ERJ6ENF2260	M 226 OHM F 1/10W
R1014	ERJ6ENF3900	M 390 OHM F 1/10W	R1241	ERJ6ENF30R1	M 30.1 OHM F 1/10W
R1020	TAJADQ75R0FV	M 75 OHM F 1/3W	R1242	ERJ6GEYJ682	M 6.8K OHM J 1/10W
R1021	ERJ6GEYJ330	M 33 OHM J 1/10W	R1244	ERJ6ENF1581	M 1.58K OHM F 1/10W
R1022	ERJ8GCVJ471	M 470 OHM J 1/8W	R1250	ERJ6ENF1053	M 105K OHM F 1/10W
R1023	ERJ6GEYJ330	M 33 OHM J 1/10W	R1252	ERJ6GEYOR00	M 0 OHM 1/10W
R1030	ERJ6GEYJ330	M 33 OHM J 1/10W	R1255	ERDS2TJ471	C 470 OHM J 1/4W
R1031	ERJ6GEYJ331	M 330 OHM J 1/10W	R1257	ERDS1FJ330	C 33 OHM J 1/2W
R1032	ERJ6GEYJ100	M 10 OHM J 1/10W	R1261	ERJ6ENF2372	M 23.7K OHM F 1/10W
R1033	ERJ6GEYJ330	M 33 OHM J 1/10W	R1262	ERJ6ENF4532	M 45.3K OHM F 1/10W
R1040	ERJ6ENF2260	M 226 OHM F 1/10W	R1265	ERJ6GEYJ221	M 220 OHM J 1/10W
R1041	ERJ6ENF29R4	M 29.4 OHM F 1/10W	R1266	ERJ6GEYJ103	M 10K OHM J 1/10W
R1042	ERJ6GEYJ682	M 6.8K OHM J 1/10W	R1267	ERDS2TJ224	C 220K OHM J 1/4W
R1044	ERJ6ENF1581	M 1.58K OHM F 1/10W	R1301	ERJ6GEYJ103	M 10K OHM J 1/10W
R1050	ERJ6ENF1053	M 105K OHM F 1/10W	R1303	ERJ6GEYJ103	M 10K OHM J 1/10W
R1052	ERJ6GEYOR00	M 0 OHM 1/10W	R1320	ERJ6GEYJ101	M 100 OHM J 1/10W
R1055	ERDS2TJ471	C 470 OHM J 1/4W	R1321	ERJ6GEYJ101	M 100 OHM J 1/10W
R1057	ERDS1FJ330	C 33 OHM J 1/2W	R1322	ERJ6GEYJ101	M 100 OHM J 1/10W
R1061	ERJ6ENF2372	M 23.7K OHM F 1/10W	R1325	ERJ6ENF2372	M 23.7K OHM F 1/10W
R1062	ERJ6ENF4532	M 45.3K OHM F 1/10W	R1326	ERJ6ENF4641	M 4.64K OHM F 1/10W
R1065	ERJ6GEYJ221	M 220 OHM J 1/10W	R1327	ERJ6GEYJ470	M 47 OHM J 1/10W
R1066	ERJ6GEYJ103	M 10K OHM J 1/10W	R1330	ERJ6GEYJ102	M 1K OHM J 1/10W
R1067	ERDS2TJ224	C 220K OHM J 1/4W	R1331	ERJ6GEYJ683	M 68K OHM J 1/10W
R1107	ERJ6ENF11R5	M 11.5 OHM F 1/10W	R1332	ERJ6GEYOR00	M 0 OHM 1/10W
R1111	TAJADQ76R8FV	M 76.8 OHM F 1/3W	R1333	ERJ6ENF7501	M 7.5K OHM F 1/10W
R1112	ERJ6GEYJ223	M 22K OHM J 1/10W	R1334	ERJ6ENF1002	M 10K OHM F 1/10W
R1113	ERJ6GEYJ123	M 12K OHM J 1/10W	R1335	ERJ6GEYJ562	M 5.6K OHM J 1/10W
R1114	ERJ6ENF1400	M 140 OHM F 1/10W	R1336	ERJ6GEYJ223	M 22K OHM J 1/10W
R1120	TAJADQ75R0FV	M 75 OHM F 1/3W	R1338	ERJ6GEYJ123	M 12K OHM J 1/10W
R1121	ERJ6GEYJ330	M 33 OHM J 1/10W	R1339	ERJ6GEYJ183	M 18K OHM J 1/10W
R1122	ERJ8GCVJ471	M 470 OHM J 1/8W	R1340	ERJ6GEYJ331	M 330 OHM J 1/10W
R1123	ERJ6GEYJ330	M 33 OHM J 1/10W	R1341	ERDS1FJ682	C 6.8K OHM J 1/2W
R1130	ERJ6GEYJ330	M 33 OHM J 1/10W	R1343	ERQ14AJR47HK	F 0.47 OHM J 1/4W
R1131	ERJ6GEYJ331	M 330 OHM J 1/10W	R1345	ERJ6GEYJ222	M 2.2K OHM J 1/10W
R1132	ERJ6GEYJ100	M 10 OHM J 1/10W	R1346	ERDS1FJ561	C 560 OHM J 1/2W
R1133	ERJ6GEYJ330	M 33 OHM J 1/10W	R1347	ERJ6ENF1241	M 1.24K OHM F 1/10W
R1140	ERJ6ENF2260	M 226 OHM F 1/10W	R1348	ERJ6ENF1002	M 10K OHM F 1/10W
R1141	ERJ6ENF26R7	M 26.7 OHM F 1/10W	R1355	ERDS1FJ680	C 68 OHM J 1/2W
R1142	ERJ6GEYJ682	M 6.8K OHM J 1/10W	R1360	ERJ6GEYJ222	M 2.2K OHM J 1/10W
R1144	ERJ6ENF1581	M 1.58K OHM F 1/10W	R1361	ERJ6GEYJ563	M 56K OHM J 1/10W
R1150	ERJ6ENF1053	M 105K OHM F 1/10W	R1362	ERJ6GEYJ102	M 1K OHM J 1/10W
R1152	ERJ6GEYOR00	M 0 OHM 1/10W	R1364	ERJ6ENF6192	M 61.9K OHM F 1/10W
R1155	ERDS2TJ471	C 470 OHM J 1/4W	R1365	EROS2CKF1004	M 1M OHM F 1/4W
R1157	ERDS1FJ330	C 33 OHM J 1/2W	R1366	ERJ6GEYJ103	M 10K OHM J 1/10W
R1161	ERJ6ENF2372	M 23.7K OHM F 1/10W	R1370	ERJ6GEYJ472	M 4.7K OHM J 1/10W
R1162	ERJ6ENF4532	M 45.3K OHM F 1/10W	R1371	ERJ6GEYJ682	M 6.8K OHM J 1/10W
R1165	ERJ6GEYJ221	M 220 OHM J 1/10W	R1372	ERJ6GEYJ332	M 3.3K OHM J 1/10W
R1166	ERJ6GEYJ103	M 10K OHM J 1/10W	R1373	ERJ6GEYJ682	M 6.8K OHM J 1/10W
R1167	ERDS2TJ224	C 220K OHM J 1/4W	R1374	ERJ6GEYJ153	M 15K OHM J 1/10W
R1207	ERJ6ENF11R5	M 11.5 OHM F 1/10W	R1391	ERDS1FJ125	C 1.2M OHM J 1/2W
R1211	TAJADQ76R8FV	M 76.8 OHM F 1/3W	R1392	ERJ6GEYJ472	M 4.7K OHM J 1/10W
R1212	ERJ6GEYJ223	M 22K OHM J 1/10W	R1393	ERJ6GEYJ152	M 1.5K OHM J 1/10W
R1213	ERJ6GEYJ123	M 12K OHM J 1/10W	R1394	ERJ6GEYJ392	M 3.9K OHM J 1/10W
R1214	ERJ6ENF3900	M 390 OHM F 1/10W	R1395	ERJ6GEYJ102	M 1K OHM J 1/10W
R1220	TAJADQ75R0FV	M 75 OHM F 1/3W	R1396	ERDS1FJ224	C 220K OHM J 1/2W
R1221	ERJ6GEYJ330	M 33 OHM J 1/10W	R1401	ERJ6GEYJ330	M 33 OHM J 1/10W
R1222	ERJ8GCVJ471	M 470 OHM J 1/8W	R1402	ERJ6GEYJ562	M 5.6K OHM J 1/10W
R1223	ERJ6GEYJ330	M 33 OHM J 1/10W	R1403	ERJ6GEYJ561	M 560 OHM J 1/10W

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
R1404	ERJ6GEYJ182	M 1.8K OHM J 1/10W	N893	TEL302-9	TERMINAL
R1405	ERJ6GEYJ105	M 1M OHM J 1/10W	△ N903	EMCSO451ML	4P CONNECTOR(L-TYPE)
R1412	ERJ6GEYJ101	M 100 OHM J 1/10W	N1002A	TJS8A4291	PHONO PIN CONNECTOR
R1413	ERJ6GEYJ101	M 100 OHM J 1/10W	N1002B	TJS8A4291	PHONO PIN CONNECTOR
R1414	ERJ6GEYJ102	M 1K OHM J 1/10W	△ N1004	TJSC00600	CRT SOCKET
R1415	ERJ6GEYJ102	M 1K OHM J 1/10W	N1005	TJC85342T	LUG TERMINAL
R1501	ERJ6GEYJ103	M 10K OHM J 1/10W	N1006	TJCD003	TERMINAL
R1502	ERJ6GEYJ103	M 10K OHM J 1/10W	△ N1007	TSXX054	1P/2P CONNECTOR ASSY
	OTHERS		△ N1011	TJSF26615	15P CONNECTOR(D-SUB)
	TESA027	CRT PCB HOLDER	△ N1015A	TJSF09554	54P CONNECTOR
	THECO159	SCREW(FOR CRT PCB HOLDER)	N1102ATJS8A4291		PHONO PIN CONNECTOR
	THE902N	D-SUB SCREW	N1102BTJS8A4291		PHONO PIN CONNECTOR
	THTFO01	SCREW(FOR IC/TR/D)	N1202ATJS8A4291		PHONO PIN CONNECTOR
	TMKK027	DOUBLE FACE TAPE	N1202BTJS8A4291		PHONO PIN CONNECTOR
			N510-1TEL302-9		TERMINAL
△	TMMK030	INSULATION TUBE	N510-2TEL302-9		TERMINAL
△	TMM81417-1	CORD BAND(BIG)	N510-3TEL302-9		TERMINAL
	TSC8908-0	FERRITE CORE	N510-4TEL302-9		TERMINAL
	TSXF134	PHONO PIN CABLE(GREY)	N901-1TEL302-9		TERMINAL
	TSXF135	PHONO PIN CABLE(RED)	N901-2TEL302-9		TERMINAL
	TSXF136	PHONO PIN CABLE(BLUE)	△ PC821	ON3171	PHOTO COUPLER
	TUCC5095-1	AC SOCKET BRACKET	△ PC822	ON3171	PHOTO COUPLER
	TUCC5270	SHIELD CASE(CRT PCB)	△ PC823	HCNW4504	PHOTO COUPLER
	TUCC5271	SHIELD PLATE(CRT PCB)	Q16	UN11004	IC PROTECTOR(0.4A)
	TUWF034	BNC TERMINAL BRACKET	RL571	TSEH0012	RELAY
	XTV3+10J	SCREW	△ RL901	TSEH0010	RELAY
	XYE3+EJ10	SCREW	S371	TAGAO005	SPARK GAP
△ CL1	TMM85490	LEAD CLAMPER	S671	TAGDSP141T	SPARK GAP
CL2	TUXX104	WIRE CLIP	S1051	TAGDSP141T	SPARK GAP
△ F801	XBA2C50TB15L	FUSE(5.0A)	S1151	TAGDSP141T	SPARK GAP
F851	TSFX37A632	FUSE(6.3A)	S1251	TAGDSP141T	SPARK GAP
FG1	TJC85341	EARTH LUG	S1351	TAGDSP141T	SPARK GAP
FG2	TJC85341	EARTH LUG	S1355	TAGDSP201MF	SPARK GAP
FG3	TJC85341	EARTH LUG	S1371	TAGAO005	SPARK GAP
FG4	TJC85341	EARTH LUG	△ SW801	ESB91274A	SWITCH(POWER)
FG5	TJC85341	EARTH LUG	SW991	EVQ33405R	SWITCH
FG6	TJC85341	EARTH LUG	SW992	EVQ33405R	SWITCH
FG7	TJC85341	EARTH LUG	SW993	EVQ33405R	SWITCH
FG8	TJC85341	EARTH LUG	SW994	EVQ33405R	SWITCH
FG9	TJC85341	EARTH LUG	TH801	ERTB6SFL100P	THERMISTOR
FG10	TJC85341	EARTH LUG	△ TH901	TAP108M7RO	POSISTOR
FG11	TJC85341	EARTH LUG	TP5	TEL302-9	TERMINAL
FG101	TJC85341	EARTH LUG	X101	TAAAO005	CRYSTAL OSCILLATOR
FG102	TJC85341	EARTH LUG			
FG103	TJC85341	EARTH LUG			
FS801	TJC85502T	FUSE HOLDER			
FS802	TJC85502T	FUSE HOLDER			
△ N11	EMCSO464M	4P CONNECTOR			
△ N12-	TSXX082	2P/3P CONNECTOR ASSY			
△ N22A	TJSF07805	5P CONNECTOR			
△ N22B	TJSF16305	5P CONNECTOR			
△ N100A	TJSF07820	20P CONNECTOR			
△ N100B	TJSF16320	20P CONNECTOR(L-TYPE)			
△ N101	TJS118590	2P CONNECTOR			
△ N150A	TJSF08012	12P CONNECTOR			
△ N150B	TJSF07912	12P CONNECTOR(L-TYPE)			
N490	TJEA022	HEAT SINK TERMINAL			
N651	TJC85342T	LUG TERMINAL			
N652	TJCD003	TERMINAL			
△ N801	TJS8A9361	AC SOCKET			
△ N861	EMCSO264M	2P CONNECTOR			
N891	TEL302-9	TERMINAL			


[illegible]

# EXPLODED VIEW





# REPLACEMENT PARTSA LIST Ver.1.1

## Important Safety Notice

Components identified by the International symbol  have special characteristics important for safety. When replacing any of these components use only manufacture's specified parts.

### RESISTOR

PART NAME & DESCRIPTION			
TYPE		ALLOWANCE	
C	Carbon	F	± 1%
F	Fuse	J	± 5%
M	Metal Oxide	K	± 10%
S	Solid	M	± 20%
W	Wire Wound	G	± 2%



Part No. Description  
Example: ERD25TJ104  100K  1/4W













































### NOTE






When ordering a flyback transformer, the focus lead (red / white) and the anode lead should also be ordered, without fail.

### CAPACITOR

PART NAME & DESCRIPTION			
TYPE		ALLOWANCE	
C	Ceramic	C	± 0.25pF
E	Electrolytic	D	± 0.5pF
P	Polyester	F	± 1pF
S	Styrol	J	± 5%
T	Tantalum	K	± 10%
PP	Polypropylene	L	± 15%
		M	± 20%
		P	+100% - 0%
		Z	+80% - 20%

Part No. Description  
Example: ECKF1H103ZF  0.01μF  50V

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
		CABINET & MAIN PARTS			
	1	TTYA06701-3		19	TMM6463 CLAMPER
	2	TKUC03572			TMM81499 PUSH RIVET
	3	TKSG001-A01			TMM85576-1 CRT RUBBER
	4	TKSG004-B01			TMM85586 RUBBER(WEDGE)
		TKPA13801			TMKE128 FERRITE STICK
		TKKC5042			TMKG035 SPONGE
		TKKL5019			TMKG067 RUBBER CUSHION(BIG)
	5	TKKX5010		20	TMK84990 SET LEG
		TKKX5011-1			TQFX040 CONDUCTIVE SHEET
		TKK859745-9			THT1028 SCREW(FOR CRT)
					THT1069 SCREW(FOR SHIELD CASE)
	7	TUAA06401-1			XTB4+12J SCREW
		TSAA3004			XTN5+16LY SCREW
	8	TUCC5083-1			XTN5+25J SCREW
	9	TUCC5084-1			XTV3+10A SCREW
	10	TUCC5085-1			XTV3+20J SCREW
					XTV3+8A SCREW
	11	TUCC5115			XYA4+EF8 SCREW
	12	TUCC5116-2			XYA4+EJ10 SCREW
	13	TBLB3002-A01		21	M51KYY540X-A COLOR PICTURE TUBE
	14	TBMD286			TNPA0892-23 PC BOARD W/COMPONENT (SSP/TCO)
	15	TBXA04401		23	TNPH0173-25 PC BOARD W/COMPONENT (MAIN)
	16	TBXA09601			
	17	TBXA09701			
		TESA012		24	TXANP4F63VLM PC BOARD W/COMPONENT (VIDEO INPUT/CRT/KBD)
		TESA046			
	18	TESDO08		25	MEY51LHB4 DEFLECTION YOKE
				26	TLCB006-1 CONVERGENCE COIL
		TESHO17		27	TSPA026-6 DEGAUSS COIL
		TES8586			
		TMME023		28	TSPFO04-2 TILT COIL
		TMME034			TSXA023 POWER CORD<-MC>
		TMME035			TSXA076 POWER CORD<-EC>
					TSXF051-1 SIGNAL CORD
		TMME052			TSXL030 FLAT CORD(5P)
		TMME070			
		TMM15404-1			TSXL055 FLAT CORD(20P)
		TMM16452			TSXX075 SCREEN LEAD(RED)

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
	TSXX076	FOCUS LEAD(RED)	Q12	2SD602R	TRANSISTOR
	TSXX077	FOCUS LEAD(WHITE)	Q13	2SC4080DETD	TRANSISTOR
	TSXX053	4P CONNECTOR ASSY	Q14	2SC4412-45	TRANSISTOR
	TXA3A11F63NM	CRT EARTH LEAD	Q15	2SA1682-45	TRANSISTOR
	TSMA003	MAGNET	Q106	2SC3938R	TRANSISTOR
	T4F31519Q	POLYESTER TAPE(50M)	Q110	2SC3938R	TRANSISTOR
	T4F72425Q	COTTON TAPE(55M)	Q280	2SA1739R	TRANSISTOR
	T4F90240	MAIRA TAPE	Q286	2SC3938R	TRANSISTOR
	TPCA62701	OUTER CARTON	Q379	2SC4081R	TRANSISTOR
	TXAPD2D2171B	FILLER(BOTTOM)	Q380	2SC4620V25	TRANSISTOR
	TXAPD2D2171T	FILLER(TOP)	Q381	2SA1576A	TRANSISTOR
	TPE894011-2	SET COVER	Q382	2SC1473AR	TRANSISTOR
	TQE8513-2	FUN BAG COVER	Q383	2SD1264PLB	TRANSISTOR
	TQBE0261	INSTRUCTION BOOK	Q384	2SB940PLB	TRANSISTOR
	TQFA343	BAR CODE LABEL	Q510	2SC1473AR	TRANSISTOR
	TQFA360	WARNING LABEL	Q535	2SD1820AR	TRANSISTOR
	TQFA532	PTB LABEL(INNER)	Q536	2SB1219AQ	TRANSISTOR
	TQF83825-6	SERIAL NO. LABEL	Q549	2SK2588	TRANSISTOR
	TQF85363-1	CARTON LABEL<-MC>	Q550	2SC5423002FD	TRANSISTOR
	TQF85363-8	CARTON LABEL<-EC>	Q560	UN5211AI	TRANSISTOR
	TQF86608	EARTH CAUTION LABEL	Q562	UN5211AI	TRANSISTOR
	I.C		Q564	UN5211AI	TRANSISTOR
			Q566	UN5211AI	TRANSISTOR
			Q575	2SC4081R	TRANSISTOR
			Q601	2SK2761-01MR	TRANSISTOR
	IC31	AN5768 IC			
	IC101	CU32110A-107 IC			
	IC104	24LC08BTISN IC	Q820	2SA733Q	TRANSISTOR
	IC106	LF347MX IC	Q821	2SK2148	TRANSISTOR
	IC107	LF347MX IC	Q827	2SA733Q	TRANSISTOR
			Q853	UN5211AI	TRANSISTOR
	IC111	TC74HC14AF IC	Q858	2SD1949Q	TRANSISTOR
	IC120	NJM2904M IC			
	IC303	LF353MX IC	Q859	UN5211AI	TRANSISTOR
	IC491	LA7875N IC	Q860	2SC3938R	TRANSISTOR
	IC510	LA6500-FA IC	Q864	2SB1219AQ	TRANSISTOR
			Q881	2SJ306MRB	TRANSISTOR
	IC511	AN8025M IC	Q882	2SB1219AQ	TRANSISTOR
	IC512	NJM2904M IC			
	IC580	AN6531 IC	Q890	2SK1848	TRANSISTOR
	IC671	TVSA0216 HYBRID IC	Q901	2SD1949Q	TRANSISTOR
	IC672	NJM2904M IC	Q902	UN5111AI	TRANSISTOR
			Q903	UN5211AI	TRANSISTOR
	IC673	NJM2904M IC	Q1002	2SC4270	TRANSISTOR
	IC674	TA76431S IC			
	IC821	M62281FP IC	Q1030	2SC4270	TRANSISTOR
	IC830	M5F7812L IC	Q1031	2SC4270	TRANSISTOR
	IC831	SI-3025F HYBRID IC	Q1032	2SA1764	TRANSISTOR
			Q1065	2SC4412-45	TRANSISTOR
	IC832	AN78LO5 IC	Q1102	2SC4270	TRANSISTOR
	IC833	AN79MO5F IC			
	IC841	MIPO223SCL IC	Q1130	2SC4270	TRANSISTOR
	IC850	M62501FP IC	Q1131	2SC4270	TRANSISTOR
	IC851	L78MR05LM IC	Q1132	2SA1764	TRANSISTOR
			Q1165	2SC4412-45	TRANSISTOR
	IC852	TL431AIZ IC	Q1202	2SC4270	TRANSISTOR
	IC1301	M52741SP701 IC			
	IC1302	VP3628 HYBRID IC	Q1230	2SC4270	TRANSISTOR
	IC1303	STK190-110 HYBRID IC	Q1231	2SC4270	TRANSISTOR
	IC1305	TA76431S IC	Q1232	2SA1764	TRANSISTOR
			Q1265	2SC4412-45	TRANSISTOR
	IC1306	L78MO9T IC	Q1301	2SA1576A	TRANSISTOR
	IC1321	NJM2904M IC			
	IC1331	MM74HCT00MX IC	Q1303	UN5211AI	TRANSISTOR
	IC1381	NJM2904M IC	Q1345	UN5111AI	TRANSISTOR
	IC1401	LSC4385DW2 IC	Q1346	2SA1739R	TRANSISTOR
		TRANSISTORS	Q1370	2SC3938R	TRANSISTOR
			Q1371	2SC3757Q	TRANSISTOR
	IC560	SLA5041 TRANSISTOR	Q1380	2SA1576A	TRANSISTOR
	Q11	2SK1848 TRANSISTOR	Q1381	UN5211AI	TRANSISTOR

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
Q1382	2SA1767Q	TRANSISTOR	D865	ERC30-02	DIODE
Q1383	2SD1819AQ	TRANSISTOR	D866	ERC30-02	DIODE
	DIODES		D867	EG01A	DIODE
D10	MA8150M	DIODE	D868	RN3Z014-305	DIODE
D11	MA153A	DIODE	D869	MA111	DIODE
D12	MA4150NM	DIODE	D871	MA4180NM	DIODE
D13	MA174	DIODE	D872	MA4022L	DIODE
D14	MA111	DIODE	D873	MA748	DIODE
D15	MA2330B	DIODE	D874	MA719	DIODE
D110	DTZTT115R6B	DIODE	D875	MA719	DIODE
D129	MA357	DIODE	D876	MA719	DIODE
D211	MA8056M	DIODE	D878	MA748	DIODE
D212	MA8056M	DIODE	D890	MA142WK	DIODE
D251	MA8056M	DIODE	D891	MA111	DIODE
D252	MA8056M	DIODE	D892	TVSD0003	DIODE
D351	MA111	DIODE	D897	MA8150M	DIODE
D352	MA111	DIODE	D901	MA111	DIODE
D363	MA4390NM	DIODE	D902	TVSD0003	DIODE
D364	MA4390NM	DIODE	D953	MA4056NM	DIODE
D365	MA4390NM	DIODE	D978	MA4056NM	DIODE
D366	MA199	DIODE	D979	MA4056NM	DIODE
D410	ERA1502	DIODE	D990	SML1816W	DIODE(LED)
D411	ERA1502	DIODE	D993	MA8056H	DIODE
D421	MA704	DIODE	D994	MA8056H	DIODE
D440	MA4051NM	DIODE	D995	MA8056H	DIODE
D550	FMQ-G5GSLF	DIODE	D996	MA8056H	DIODE
D551	ERA81004	DIODE	D1011	MA111	DIODE
D552	MA111	DIODE	D1012	MA111	DIODE
D553	MA8150M	DIODE	D1013	MA111	DIODE
D575	MA4047NM	DIODE	D1020	MA111	DIODE
D577	MA111	DIODE	D1021	MA111	DIODE
D602	ESAC39M-06D	DIODE	D1030	DCC010	DIODE
D604	ERA92-02	DIODE	D1051	MA2Z001	DIODE
D605	ERA92-02	DIODE	D1052	MA2Z001	DIODE
D651	MA167	DIODE	D1065	MA167A	DIODE
D652	TVSAG01	DIODE	D1111	MA111	DIODE
D653	TVSAG01	DIODE	D1112	MA111	DIODE
D654	MA111	DIODE	D1113	MA111	DIODE
D673	MA165	DIODE	D1120	MA111	DIODE
D674	MA142WK	DIODE	D1121	MA111	DIODE
D680	MA4075NM	DIODE	D1130	DCC010	DIODE
D821	RBV606	DIODE	D1151	MA2Z001	DIODE
D822	RG2A2	DIODE	D1152	MA2Z001	DIODE
D824	MA4300NM	DIODE	D1165	MA167A	DIODE
D825	MA113	DIODE	D1211	MA111	DIODE
D826	MA165	DIODE	D1212	MA111	DIODE
D833	MA4082NM	DIODE	D1213	MA111	DIODE
D840	TAB101K201T	VARISTOR	D1220	MA111	DIODE
D841	EG01Z	DIODE	D1221	MA111	DIODE
D842	MA4150NL	DIODE	D1230	DCC010	DIODE
D843	ERA34-10	DIODE	D1251	MA2Z001	DIODE
D850	MA111	DIODE	D1252	MA2Z001	DIODE
D851	ERC91-02	DIODE	D1265	MA167A	DIODE
D855	MA4091NM	DIODE	D1301	MA142WA	DIODE
D856	CB903-4	DIODE	D1324	MA4056NM	DIODE
D857	MA111	DIODE	D1325	MA188	DIODE
D858	MA111	DIODE	D1326	MA111	DIODE
D861	EG01A	DIODE	D1331	MA111	DIODE
D862	FML-S16S	DIODE	D1340	MA4051NM	DIODE
D863	TVSRG2	DIODE	D1341	MA4051NM	DIODE
D864	FML-G02S	DIODE	D1342	MA4051NM	DIODE
			D1343	MA4051NM	DIODE

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
Q1382	2SA1767Q	TRANSISTOR	D865	ERC30-02	DIODE
Q1383	2SD1819AQ	TRANSISTOR	D866	ERC30-02	DIODE
	DIODES		D867	EG01A	DIODE
D10	MA8150M	DIODE	D868	RN3Z014-305	DIODE
D11	MA153A	DIODE	D869	MA111	DIODE
D12	MA4150NM	DIODE	D871	MA4180NM	DIODE
D13	MA174	DIODE	D872	MA4022L	DIODE
D14	MA111	DIODE	D873	MA748	DIODE
D15	MA2330B	DIODE	D874	MA719	DIODE
D110	DTZTT115R6B	DIODE	D875	MA719	DIODE
D129	MA357	DIODE	D876	MA719	DIODE
D211	MA8056M	DIODE	D878	MA748	DIODE
D212	MA8056M	DIODE	D890	MA142WK	DIODE
D251	MA8056M	DIODE	D891	MA111	DIODE
D252	MA8056M	DIODE	D892	TVSD0003	DIODE
D351	MA111	DIODE	D897	MA8150M	DIODE
D352	MA111	DIODE	D901	MA111	DIODE
D363	MA4390NM	DIODE	D902	TVSD0003	DIODE
D364	MA4390NM	DIODE	D953	MA4056NM	DIODE
D365	MA4390NM	DIODE	D978	MA4056NM	DIODE
D366	MA199	DIODE	D979	MA4056NM	DIODE
D410	ERA1502	DIODE	D990	SML1816W	DIODE(LED)
D411	ERA1502	DIODE	D993	MA8056H	DIODE
D421	MA704	DIODE	D994	MA8056H	DIODE
D440	MA4051NM	DIODE	D995	MA8056H	DIODE
D550	FMQ-G5GSLF	DIODE	D996	MA8056H	DIODE
D551	ERA81004	DIODE	D1011	MA111	DIODE
D552	MA111	DIODE	D1012	MA111	DIODE
D553	MA8150M	DIODE	D1013	MA111	DIODE
D575	MA4047NM	DIODE	D1020	MA111	DIODE
D577	MA111	DIODE	D1021	MA111	DIODE
D602	ESAC39M-06D	DIODE	D1030	DCC010	DIODE
D604	ERA92-02	DIODE	D1051	MA2Z001	DIODE
D605	ERA92-02	DIODE	D1052	MA2Z001	DIODE
D651	MA167	DIODE	D1065	MA167A	DIODE
D652	TVSAG01	DIODE	D1111	MA111	DIODE
D653	TVSAG01	DIODE	D1112	MA111	DIODE
D654	MA111	DIODE	D1113	MA111	DIODE
D673	MA165	DIODE	D1120	MA111	DIODE
D674	MA142WK	DIODE	D1121	MA111	DIODE
D680	MA4075NM	DIODE	D1130	DCC010	DIODE
D821	RBV606	DIODE	D1151	MA2Z001	DIODE
D822	RG2A2	DIODE	D1152	MA2Z001	DIODE
D824	MA4300NM	DIODE	D1165	MA167A	DIODE
D825	MA113	DIODE	D1211	MA111	DIODE
D826	MA165	DIODE	D1212	MA111	DIODE
D833	MA4082NM	DIODE	D1213	MA111	DIODE
D840	TAB101K201T	VARISTOR	D1220	MA111	DIODE
D841	EG01Z	DIODE	D1221	MA111	DIODE
D842	MA4150NL	DIODE	D1230	DCC010	DIODE
D843	ERA34-10	DIODE	D1251	MA2Z001	DIODE
D850	MA111	DIODE	D1252	MA2Z001	DIODE
D851	ERC91-02	DIODE	D1265	MA167A	DIODE
D855	MA4091NM	DIODE	D1301	MA142WA	DIODE
D856	CB903-4	DIODE	D1324	MA4056NM	DIODE
D857	MA111	DIODE	D1325	MA188	DIODE
D858	MA111	DIODE	D1326	MA111	DIODE
D861	EG01A	DIODE	D1331	MA111	DIODE
D862	FML-S16S	DIODE	D1340	MA4051NM	DIODE
D863	TVSRG2	DIODE	D1341	MA4051NM	DIODE
D864	FML-G02S	DIODE	D1342	MA4051NM	DIODE
			D1343	MA4051NM	DIODE

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
D1344	MA4051NM	DIODE	C16	ECUX1H102JCX	C 1000PF J 50V
D1345	MA4051NM	DIODE	C17	ECQE2104KF	P 0.1UF K 200V
D1346	MA4051NM	DIODE	C31	ECEA1HGE4R7	E 4.7UF 50V
D1347	MA8330M	DIODE	C32	ECEA1HGE4R7	E 4.7UF 50V
D1348	MA111	DIODE	C51	ECJ2VF1C105Z	C 1UF Z 16V
D1349	MA8330M	DIODE	C52	ECJ2VF1C105Z	C 1UF Z 16V
D1371	MA111	DIODE	C53	ECJ2VF1C105Z	C 1UF Z 16V
D1381	MA111	DIODE	C55	ECJ2VF1C105Z	C 1UF Z 16V
D1382	EU02Z	DIODE	C56	ECJ2VF1C105Z	C 1UF Z 16V
D1383	MA8100L	DIODE	C58	ECJ2VF1C105Z	C 1UF Z 16V
	COIL & TRANSFORMERS		C101	ECUX1H150JCN	C 15PF J 50V
			C102	ECUX1H150JCN	C 15PF J 50V
			C104	ECUX1H103KBG	C 0.01UF K 50V
L101	ELJFA5R6JB	CHIP COIL	C110	ECJ2VF1H104Z	C 0.1UF Z 50V
△ L501	ELC18B272G	CHOKO COIL	C111	ECA0JHG471	E 470UF 6.3V
L503	TLH85815T	COIL			
L530	ELEY102KA	PEAKING COIL	C113	ECUX1C104KBX	C 0.1UF K 16V
L532	TLH85815T	COIL	C114	ECUX1H102KBN	C 1000PF K 50V
			C115	ECUX1H102KBN	C 1000PF K 50V
L550	EXCELSA35T	LC COMBINATION	C117	ECJ2VF1H104Z	C 0.1UF Z 50V
L551	EXCELSA35T	LC COMBINATION	C118	ECJ2VF1H104Z	C 0.1UF Z 50V
△ L577	ELHKLBO30B	COIL			
△ L578	ELHKLBO31B	COIL	C119	ECUX1H222JCX	C 2200PF J 50V
L601	TLUADTB100K	PEAKING COIL	C122	ECUX1C105KBW	C 1UF K 16V
			C123	ECJ2VF1H104Z	C 0.1UF Z 50V
L602	TLUACNB220K	PEAKING COIL	C124	ECUX1H103KBG	C 0.01UF K 50V
L603	TSK8029	FERRITE CORE	C125	ECJ2VF1H104Z	C 0.1UF Z 50V
L605	TSK8029	FERRITE CORE			
L680	TSK8029	FERRITE CORE	C126	ECUX1H472KBG	C 4700PF K 50V
△ L801	ELF18D666V	LINE FILTER	C130	ECEV1CG100G	E 10UF 16V
			C131	ECA0JHG471	E 470UF 6.3V
△ L802	ELF18D666V	LINE FILTER	C132	ECJ2VF1H104Z	C 0.1UF Z 50V
L820	EXCELD35C	LC COMBINATION	C133	ECEV1CG100G	E 10UF 16V
△ L850	TLP85708R	CHOKO COIL			
L861	TSK8029	FERRITE CORE	C134	ECJ2VF1H104Z	C 0.1UF Z 50V
L862	TSK8029	FERRITE CORE	C137	ECJ2VF1H104Z	C 0.1UF Z 50V
			C138	ECEV1CG100G	E 10UF 16V
L863	TSK8029	FERRITE CORE	C139	ECJ2VF1H104Z	C 0.1UF Z 50V
L864	TSK8029	FERRITE CORE	C140	ECJ2VF1H104Z	C 0.1UF Z 50V
L865	TSK8029	FERRITE CORE			
L866	TSK8029	FERRITE CORE	C141	ECJ2VF1H104Z	C 0.1UF Z 50V
L868	TSK8029	FERRITE CORE	C143	ECUX1H101JCG	C 100PF J 50V
			C144	ECUX1H101JCG	C 100PF J 50V
L881	TLUACNB102J	PEAKING COIL	C145	ECJ2VF1H104Z	C 0.1UF Z 50V
L898	TLUACNB102J	PEAKING COIL	C151	ECJ2VF1H104Z	C 0.1UF Z 50V
L1320	EXCELD35C	LC COMBINATION			
L1321	TSKA092	FERRITE CORE	C152	ECJ2VF1H104Z	C 0.1UF Z 50V
L1322	TSKA092	FERRITE CORE	C153	ECUX1C224KBX	C 0.22UF K 16V
			C154	ECJ2VF1H104Z	C 0.1UF Z 50V
L1323	TSKA092	FERRITE CORE	C155	ECJ2VF1H104Z	C 0.1UF Z 50V
L1324	TSKA092	FERRITE CORE	C163	ECUX1H151JCG	C 150PF J 50V
L1327	ELESN221KA	PEAKING COIL			
L1340	EXCELD35C	LC COMBINATION	C164	ECUX1H151JCG	C 150PF J 50V
L1341	EXCELD35C	LC COMBINATION	C166	ECUX1H151JCG	C 150PF J 50V
			C167	ECUX1H151JCG	C 150PF J 50V
L1351	EXCELD35C	LC COMBINATION	C168	ECUX1H151JCG	C 150PF J 50V
L1352	EXCELD35C	LC COMBINATION	C169	ECUX1C224KBX	C 0.22UF K 16V
L1354	EXCELD35C	LC COMBINATION			
L1401	ELEXH151KA	PEAKING COIL	C170	ECUX1H151JCG	C 150PF J 50V
△ T351	TLHGO10	D.A.F. TRANSFORMER	C171	ECEV1CG470G	E 47UF 16V
			C173	ECJ2VF1H104Z	C 0.1UF Z 50V
△ T541	ETH19K179AM	H.DRIVE TRANSFORMER	C174	ECA1CHG471	E 470UF 16V
△ T542	ETS29AC129AC	TRANSFORMER	C179	ECJ2VF1H104Z	C 0.1UF Z 50V
△ T601	TLFA01365	FLYBACK TRANSFORMER			
△ T821	TLPA052	POWER TRANSFORMER	C183	ECJ2VF1H104Z	C 0.1UF Z 50V
△ T823	TLPA066	POWER TRANSFORMER(SUB)	C184	ECEV1CG100G	E 10UF 16V
	CAPACITORS		C185	ECJ2VF1H104Z	C 0.1UF Z 50V
			C186	ECEV1CG100G	E 10UF 16V
C11	ECQV1H223JL	P 0.022UF J 50V	C187	ECUX1H562JUW	C 5600PF J 50V
C13	ECJ2VF1H104Z	C 0.1UF Z 50V	C188	ECUX1H562JUW	C 5600PF J 50V
C14	ECJ2VF1H104Z	C 0.1UF Z 50V	C189	ECUX1H562JCW	C 5600PF J 50V

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
C190	ECUX1H562JCW	C 5600PF J 50V	C672	ECEA25V4R7T	E 4.7UF 25V
C196	ECUX1H101JCG	C 100PF J 50V	C674	ECQV1H105JL	P 1UF J 50V
C255	ECJ2VF1H104Z	C 0.1UF Z 50V	C675	ECQB1H104JF	P 0.1UF J 50V
C256	ECJ2VF1H104Z	C 0.1UF Z 50V	C682	ECJ2VF1H104Z	C 0.1UF Z 50V
C257	ECUX1H271JCG	C 270PF J 50V	C683	ECJ2VF1H104Z	C 0.1UF Z 50V
C258	ECUX1H121JCG	C 120PF J 50V	C684	ECJ2VF1H104Z	C 0.1UF Z 50V
C259	ECUX1H150JCN	C 15PF J 50V	C706	ECA1EEN100	E 10UF 25V
C280	ECA1HEN010	E 1UF 50V	△ C801	ECQU2A334MVZ	PP 0.33UF M 250V
C281	ECUX1H103KBG	C 0.01UF K 50V	△ C804	ECKDRS472MEY	C 4700PF M
C352	ECA2CHG100	E 10UF 160V	△ C805	ECKDRS472MEY	C 4700PF M
C353	ECQV1474JZ	P 0.47UF J 100V	△ C806	ECQU2A104MNF	PP 0.1UF M 250V
C369	ECA1HHG470	E 47UF 50V	△ C807	ECQU2A224MNF	PP 0.22UF M 250V
C370	ECUX1H361JCG	C 360PF J 50V	C819	ECQE2154KF	P 0.15UF K 200V
C371	ECKD2H471KBS	C 470PF K 500V	C820	ECUX1C105KBW	C 1UF K 16V
C372	ECUX1H080DCN	C 8PF D 50V	C821	TAC1094Z391A	E 390UF 400V
C373	ECEA2EGE100	E 10UF 250V	C822	ECQE2154KF	P 0.15UF K 200V
C375	ECUX1H103KBG	C 0.01UF K 50V	C823	ECKD3A271KBP	C 270PF K 1KV
C376	ECA1CHG221	E 220UF 16V	C825	ECEA1VGE330	E 33UF 35V
C377	ECEA1EGE330	E 33UF 25V	C828	ECUX1H222KBN	C 2200PF K 50V
C380	ECQE2104KF	P 0.1UF K 200V	△ C831	ECKDRS332MEY	C 3300PF M
C440	ECA1EHG222	E 2200UF 25V	△ C832	ECKDRS332MEY	C 3300PF M
C441	TACCC1H100MT	E 10UF 50V	C833	ECJ2VF1H104Z	C 0.1UF Z 50V
C443	ECUX1H123KBX	C 0.012UF K 50V	C834	ECUX1H222KBN	C 2200PF K 50V
C444	TACCC1H101MT	E 100UF 50V	C835	ECQB1H222JF	P 2200PF J 50V
C445	TACCC1H101MT	E 100UF 50V	C836	ECUX1H221KBN	C 220PF K 50V
C446	ECUX1H102KBN	C 1000PF K 50V	C837	ECEA1HGE2R2	E 2.2UF 50V
C447	ECA1EHG222	E 2200UF 25V	C839	ECUX1H222KBN	C 2200PF K 50V
C448	ECQV1473JM	P 0.047UF J 100V	C841	ECEA1EGE101	E 100UF 25V
C449	ECUX1H103KBG	C 0.01UF K 50V	C842	ECUX1H104ZFW	C 0.1UF Z 50V
C450	ECQE1224KF	P 0.22UF K 100V	C843	ECEA1EGE330	E 33UF 25V
C451	ECQE1563KF	P 0.056UF K 100V	C844	ECJ2VF1H104Z	C 0.1UF Z 50V
C501	ECQE2224KF	P 0.22UF K 200V	C845	ECEA1EGE100	E 10UF 25V
C503	ECJ2VF1H104Z	C 0.1UF Z 50V	C846	ECUX1H822KBG	C 8200PF K 50V
C504	ECA2AHG100	E 10UF 100V	C848	ECEA1EGE330	E 33UF 25V
C505	ECJ2VF1C105Z	C 1UF Z 16V	C851	TACCC1C102MT	E 1000UF 16V
C506	ECJ2VF1H104Z	C 0.1UF Z 50V	C852	ECQE1474KF	P 0.47UF K 100V
C508	ECUX1E473KBX	C 0.047UF K 25V	C853	ECEA1CGE470	E 47UF 16V
C530	ECA2EHG2R2	E 2.2UF 250V	C855	ECA1EHG471	E 470UF 25V
C551	ECA1VHG101	E 100UF 35V	C858	ECJ2VF1H104Z	C 0.1UF Z 50V
C552	TACBN2A332KT	C 3300PF K 100V	C859	ECA2EHG101	E 100UF 250V
C553	ECWH20222HV	PP 2200PF H 1.5KV	C860	TACBK2A224MT	C 0.22UF M 100V
C554	ECWH20222HV	PP 2200PF H 1.5KV	C861	ECOS2EA221CB	E 220UF 250V
C555	ECQE2335KF	P 3.3UF K 200V	C862	TACCC2A471MB	E 470UF 100V
C561	ECWF2824HBB	PP 0.82UF H 200V	C863	TAC11035102T	E 1000UF 35V
C563	ECWF2364HBB	PP 0.36UF H 200V	C864	TACCC1E222MT	E 2200UF 25V
C565	ECWF2154HBB	PP 0.15UF H 200V	C865	ECEA1CGE102	E 1000UF 16V
C567	ECWF2185HBB	PP 1.8UF H 200V	C866	ECEA1CGE102	E 1000UF 16V
C568	ECWF2154HBB	PP 0.15UF H 200V	C867	TACBK2A224MT	C 0.22UF M 100V
C569	ECWF2154HBB	PP 0.15UF H 200V	C868	ECEA1EGE222	E 2200UF 25V
C574	ECKD2H102KBS	C 1000PF K 500V	C869	ECA1CHG331	E 330UF 16V
C575	ECKD2H102KBS	C 1000PF K 500V	C870	ECA1CHG331	E 330UF 16V
C578	ECA1VHG470	E 47UF 35V	C872	ECUX1C224KBW	C 0.22UF K 16V
C590	ECUX1H103KBG	C 0.01UF K 50V	C874	ECA1HHG470	E 47UF 50V
C601	ECQF6102JZ	PP 1000PF J 600V	C875	TACCB2A331MA	E 330UF 100V
C602	ECQF6392JZ	PP 3900PF J 600V	C876	ECUX1H103KBG	C 0.01UF K 50V
C651	ECEA1HGE4R7	E 4.7UF 50V	C877	ECA1HHG220	E 22UF 50V
C652	ECA2EHG100	E 10UF 250V	C878	ECA1CHG101	E 100UF 16V
C653	ECA2CHG100	E 10UF 160V	C879	ECA1EHG470	E 47UF 25V
C654	ECA2CHG4R7	E 4.7UF 160V	C880	ECEA1EGE220	E 22UF 25V
C655	ECQV1H225JL	P 2.2UF J 50V	C881	ECA1HHG100	E 10UF 50V
C656	ECUX1H103KBG	C 0.01UF K 50V	C882	ECEA1HGE100	E 10UF 50V
C657	ECUX1H103KBG	C 0.01UF K 50V	C883	ECQB1H224JF	P 0.22UF J 50V

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
C884	ECUX1H102KBN	C 1000PF K 50V	C1211	ECUX1H103KBG	C 0.01UF K 50V
C885	ECKD2H152KB5	C 1500PF K 500V	C1212	TACCL0J227MT	E 220UF 6.3V
C886	ECUX1H222KBN	C 2200PF K 50V	C1213	ECUX1H103KBG	C 0.01UF K 50V
C887	ECUX1H681KBN	C 680PF K 50V	C1214	ECUX1H101JCG	C 100PF J 50V
C888	TACBU2E333KT	C 0.033UF K 250V	C1220	ECUX1H103KBG	C 0.01UF K 50V
C889	ECQE2684KF	P 0.68UF K 200V	C1221	ECA1HEN4R7	E 4.7UF 50V
C890	ECEA1HGE4R7	E 4.7UF 50V	C1222	ECUX1H103KBG	C 0.01UF K 50V
C891	TAC1102A331T	E 330UF 100V	C1230	ECUX1H103KBG	C 0.01UF K 50V
C893	ECUX1H561JCX	C 560PF J 50V	C1231	ECEA1EGE100	E 10UF 25V
C894	ECJ2VF1H104Z	C 0.1UF Z 50V	C1232	ECUX1H103KBG	C 0.01UF K 50V
C896	ECUX1E104KBX	C 0.1UF K 25V	C1233	ECUX1H103KBG	C 0.01UF K 50V
C897	ECUX1H472KBM	C 4700PF K 50V	C1234	ECJ2VF1C105Z	C 1UF Z 16V
C898	ECA2EHG470	E 47UF 250V	C1241	ECUX1H680GCG	C 68PF G 50V
C899	ECUX1E104KBX	C 0.1UF K 25V	C1242	ECUX1H150GCN	C 15PF G 50V
C902	ECUX1H104ZFW	C 0.1UF Z 50V	C1250	TACBN2A102KT	C 1000PF K 100V
C1011	ECUX1H103KBG	C 0.01UF K 50V	C1251	TACBN2A103KT	C 0.01UF K 100V
C1012	TACCL0J227MT	E 220UF 6.3V	C1252	ECEA2AGE100	E 10UF 100V
C1013	ECUX1H103KBG	C 0.01UF K 50V	C1253	TACBH2A474MT	C 0.47UF M 100V
C1014	ECUX1H101JCG	C 100PF J 50V	C1255	TACBJ2H222KT	C 2200PF K 500V
C1020	ECUX1H103KBG	C 0.01UF K 50V	C1265	TACBG2E683KT	C 0.068UF K 250V
C1021	ECA1HEN4R7	E 4.7UF 50V	C1266	ECEA2CGE010	E 1UF 160V
C1022	ECUX1H103KBG	C 0.01UF K 50V	C1267	ECUX1H470JCG	C 47PF J 50V
C1030	ECUX1H103KBG	C 0.01UF K 50V	C1268	ECUX1H100CCN	C 10PF C 50V
C1031	ECEA1EGE100	E 10UF 25V	C1301	TACCL1C476MT	E 47UF 16V
C1032	ECUX1H103KBG	C 0.01UF K 50V	C1304	ECUX1H103KBG	C 0.01UF K 50V
C1033	ECUX1H103KBG	C 0.01UF K 50V	C1305	ECUX1H103KBG	C 0.01UF K 50V
C1034	ECJ2VF1C105Z	C 1UF Z 16V	C1310	TACCL1C476MT	E 47UF 16V
C1041	ECUX1H680GCG	C 68PF G 50V	C1312	TACCL1H105MT	E 1UF 50V
C1042	ECUX1H150GCN	C 15PF G 50V	C1313	ECEA1HGE100	E 10UF 50V
C1043	ECUX1H040CCN	C 4PF C 50V	C1314	ECJ2VF1H104Z	C 0.1UF Z 50V
C1050	TACBN2A102KT	C 1000PF K 100V	C1320	ECEA1CGE470	E 47UF 16V
C1051	TACBN2A103KT	C 0.01UF K 100V	C1321	ECUX1H103KBG	C 0.01UF K 50V
C1052	ECEA2AGE100	E 10UF 100V	C1322	ECA1HHG100	E 10UF 50V
C1053	TACBH2A474MT	C 0.47UF M 100V	C1323	ECUX1H103KBG	C 0.01UF K 50V
C1055	TACBJ2H222KT	C 2200PF K 500V	C1326	ECEA1CGE471	E 470UF 16V
C1065	TACBG2E683KT	C 0.068UF K 250V	C1327	ECUX1H103KBG	C 0.01UF K 50V
C1066	ECEA2CGE010	E 1UF 160V	C1328	ECEA1CGE471	E 470UF 16V
C1067	ECUX1H470JCG	C 47PF J 50V	C1329	ECEA1AGE101	E 100UF 10V
C1068	ECUX1H100CCN	C 10PF C 50V	C1331	ECEA1AGE101	E 100UF 10V
C1111	ECUX1H103KBG	C 0.01UF K 50V	C1332	ECJ2VF1E224Z	C 0.22UF Z 25V
C1112	TACCL0J227MT	E 220UF 6.3V	C1333	ECUX1H103KBG	C 0.01UF K 50V
C1113	ECUX1H103KBG	C 0.01UF K 50V	C1334	ECEA1CGE470	E 47UF 16V
C1114	ECUX1H101JCG	C 100PF J 50V	C1335	ECEA1CGE470	E 47UF 16V
C1120	ECUX1H103KBG	C 0.01UF K 50V	C1336	ECEA1CGE470	E 47UF 16V
C1121	ECA1HEN4R7	E 4.7UF 50V	C1340	TCUX1C225ZFN	C 2.2UF Z 16V
C1122	ECUX1H103KBG	C 0.01UF K 50V	C1342	ECEA2AGE220	E 22UF 100V
C1130	ECUX1H103KBG	C 0.01UF K 50V	C1344	ECUX1H102KBN	C 1000PF K 50V
C1131	ECEA1EGE100	E 10UF 25V	C1345	ECJ2VF1H104Z	C 0.1UF Z 50V
C1132	ECUX1H103KBG	C 0.01UF K 50V	C1346	ECEA1EGE100	E 10UF 25V
C1133	ECUX1H103KBG	C 0.01UF K 50V	C1348	ECEA2CGE100	E 10UF 160V
C1134	ECJ2VF1C105Z	C 1UF Z 16V	C1349	TCUX1C225ZFN	C 2.2UF Z 16V
C1141	ECUX1H680GCG	C 68PF G 50V	C1351	TACBJ2H222KT	C 2200PF K 500V
C1142	ECUX1H150GCN	C 15PF G 50V	C1355	TACBJ2H102KT	C 1000PF K 500V
C1143	ECUX1H030CCN	C 3PF C 50V	C1356	TACBJ2H101KT	C 100PF K 500V
C1150	TACBN2A102KT	C 1000PF K 100V	C1357	ECKD3D272KBP	C 2700PF K 2K V
C1151	TACBN2A103KT	C 0.01UF K 100V	C1358	TACBJ2J222KT	C 2200PF K 630V
C1153	TACBH2A474MT	C 0.47UF M 100V	C1359	TACBJ2J222KT	C 2200PF K 630V
C1155	TACBJ2H222KT	C 2200PF K 500V	C1360	TACBJ2J222KT	C 2200PF K 630V
C1165	TACBG2E683KT	C 0.068UF K 250V	C1365	TCUX2H110JCM	C 11PF J 500V
C1166	ECEA2CGE010	E 1UF 160V	C1370	TACBJ2H102KT	C 1000PF K 500V
C1167	ECUX1H470JCG	C 47PF J 50V	C1372	ECUX1H221KBN	C 220PF K 50V
C1168	ECUX1H100CCN	C 10PF C 50V	C1381	ECJ2VF1H104Z	C 0.1UF Z 50V

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
C1391	TACBG2E683KT	C 0.068UF K 250V	J1301	ERD25TCO	C 0 OHM 1/4W
C1402	ECUX1H223K BX	C 0.022UF K 50V	J1302	ERD25TCO	C 0 OHM 1/4W
C1403	ECJ2VF1E224Z	C 0.22UF Z 25V	J1321	ERD25TCO	C 0 OHM 1/4W
C1404	ECUX1H221KBN	C 220PF K 50V	J1325	ERJ6GEYOR00	M 0 OHM 1/10W
C1405	ECUX1H104KBW	C 0.1UF K 50V	L1056	ERJ8GCRYOR00	M 0 OHM 1/8W
C1406	ECEA1AGE101	E 100UF 10V	L1156	ERJ8GCRYOR00	M 0 OHM 1/8W
C1408	ECUX1H220JCN	C 22PF J 50V	L1256	ERJ8GCRYOR00	M 0 OHM 1/8W
C1409	ECJ2VF1C105Z	C 1UF Z 16V	R10	ERDS2TJ101	C 100 OHM J 1/4W
C1410	ECEA1EGE100	E 10UF 25V	R11	ERJ6ENF1002	M 10K OHM F 1/10W
C1412	ECEA1HGE3R3	E 3.3UF 50V	R12	ERJ6ENF4703	M 470K OHM F 1/10W
C1414	ECEA1HGE3R3	E 3.3UF 50V	R13	ERJ6ENF1052	M 10.5K OHM F 1/10W
RESISTORS			R14	ERJ6ENF3301	M 3.3K OHM F 1/10W
C1003	ERJ6GEYOR00	M 0 OHM 1/10W	R15	ERG2SJ183	M 18K OHM J 2W
C1203	ERJ6GEYOR00	M 0 OHM 1/10W	R16	ERJ6ENF2320	M 232 OHM F 1/10W
C1353	ERJ8GCRYOR00	M 0 OHM 1/8W	R18	ERG1SJ273	M 27K OHM J 1W
D1501	ERJ6GEYOR00	M 0 OHM 1/10W	R19	ERJ6ENF4702	M 47K OHM F 1/10W
J601	ERJ6GEYOR00	M 0 OHM 1/10W	R20	ERJ6ENF4702	M 47K OHM F 1/10W
J602	ERJ6GEYOR00	M 0 OHM 1/10W	R22	ERJ6GEYOR00	M 0 OHM 1/10W
J603	ERJ6GEYOR00	M 0 OHM 1/10W	R23	ERJ6GEYJ105	M 1M OHM J 1/10W
J604	ERJ6GEYOR00	M 0 OHM 1/10W	R24	ERJ6ENF4703	M 470K OHM F 1/10W
J605	ERJ6GEYOR00	M 0 OHM 1/10W	R25	ERJ6ENF1000	M 100 OHM F 1/10W
J606	ERJ6GEYOR00	M 0 OHM 1/10W	R26	ERJ6GEYJ333	M 33K OHM J 1/10W
J607	ERJ6GEYOR00	M 0 OHM 1/10W	R31	ERJ6GEYJ102	M 1K OHM J 1/10W
J608	ERJ6GEYOR00	M 0 OHM 1/10W	R32	ERJ8GCRYK2R7	M 2.7 OHM K 1/8W
J609	ERJ6GEYOR00	M 0 OHM 1/10W	R33	ERG1SJ100	M 10 OHM J 1W
J610	ERJ6GEYOR00	M 0 OHM 1/10W	R51	ERJ6GEYJ102	M 1K OHM J 1/10W
J701	ERJ8GCRYOR00	M 0 OHM 1/8W	R52	ERJ6GEYJ102	M 1K OHM J 1/10W
J702	ERJ8GCRYOR00	M 0 OHM 1/8W	R53	ERJ6GEYJ102	M 1K OHM J 1/10W
J703	ERJ8GCRYOR00	M 0 OHM 1/8W	R55	ERJ6GEYJ102	M 1K OHM J 1/10W
J704	ERJ8GCRYOR00	M 0 OHM 1/8W	R56	ERJ6GEYJ102	M 1K OHM J 1/10W
J705	ERJ8GCRYOR00	M 0 OHM 1/8W	R58	ERJ6GEYJ102	M 1K OHM J 1/10W
J706	ERJ8GCRYOR00	M 0 OHM 1/8W	R104	ERJ6GEYJ222	M 2.2K OHM J 1/10W
J707	ERJ8GCRYOR00	M 0 OHM 1/8W	R105	ERJ6GEYJ222	M 2.2K OHM J 1/10W
J708	ERJ8GCRYOR00	M 0 OHM 1/8W	R109	ERJ6GEYJ103	M 10K OHM J 1/10W
J709	ERJ8GCRYOR00	M 0 OHM 1/8W	R110	ERJ6GEYJ103	M 10K OHM J 1/10W
J710	ERJ8GCRYOR00	M 0 OHM 1/8W	R111	ERJ6GEYJ152	M 1.5K OHM J 1/10W
J712	ERJ8GCRYOR00	M 0 OHM 1/8W	R112	ERJ6GEYJ122	M 1.2K OHM J 1/10W
J713	ERJ8GCRYOR00	M 0 OHM 1/8W	R115	ERJ6GEYOR00	M 0 OHM 1/10W
J714	ERJ8GCRYOR00	M 0 OHM 1/8W	R120	ERJ6GEYJ272	M 2.7K OHM J 1/10W
J715	ERJ8GCRYOR00	M 0 OHM 1/8W	R121	ERJ6GEYJ822	M 8.2K OHM J 1/10W
J716	ERJ8GCRYOR00	M 0 OHM 1/8W	R123	ERJ6GEYJ122	M 1.2K OHM J 1/10W
J717	ERJ8GCRYOR00	M 0 OHM 1/8W	R124	ERJ6GEYJ392	M 3.9K OHM J 1/10W
J718	ERJ8GCRYOR00	M 0 OHM 1/8W	R125	ERJ6GEYJ335	M 3.3K OHM J 1/10W
J719	ERJ8GCRYOR00	M 0 OHM 1/8W	R127	ERJ6GEYOR00	M 0 OHM 1/10W
J721	ERJ8GCRYOR00	M 0 OHM 1/8W	R131	ERJ6GEYJ272	M 2.7K OHM J 1/10W
J722	ERJ8GCRYOR00	M 0 OHM 1/8W	R132	ERJ6GEYJ272	M 2.7K OHM J 1/10W
J724	ERJ8GCRYOR00	M 0 OHM 1/8W	R133	ERJ6GEYOR00	M 0 OHM 1/10W
J725	ERJ8GCRYOR00	M 0 OHM 1/8W	R134	ERJ6GEYOR00	M 0 OHM 1/10W
J726	ERJ8GCRYOR00	M 0 OHM 1/8W	R135	ERJ6GEYJ471	M 470 OHM J 1/10W
J727	ERJ8GCRYOR00	M 0 OHM 1/8W	R136	ERJ6GEYJ101	M 100 OHM J 1/10W
J729	ERJ8GCRYOR00	M 0 OHM 1/8W	R137	ERJ6GEYJ101	M 100 OHM J 1/10W
J730	ERJ8GCRYOR00	M 0 OHM 1/8W	R140	ERJ6GEYJ103	M 10K OHM J 1/10W
J731	ERJ8GCRYOR00	M 0 OHM 1/8W	R141	ERJ6GEYJ103	M 10K OHM J 1/10W
J732	ERJ8GCRYOR00	M 0 OHM 1/8W	R142	ERJ6GEYJ103	M 10K OHM J 1/10W
J733	ERJ8GCRYOR00	M 0 OHM 1/8W	R145	ERJ6GEYJ103	M 10K OHM J 1/10W
J734	ERJ8GCRYOR00	M 0 OHM 1/8W	R146	ERJ6GEYJ103	M 10K OHM J 1/10W
J735	ERJ8GCRYOR00	M 0 OHM 1/8W	R149	ERJ6GEYJ183	M 18K OHM J 1/10W
J736	ERJ8GCRYOR00	M 0 OHM 1/8W	R150	ERJ6GEYJ222	M 2.2K OHM J 1/10W
J737	ERJ8GCRYOR00	M 0 OHM 1/8W	R151	ERJ6GEYJ222	M 2.2K OHM J 1/10W
J738	ERJ8GCRYOR00	M 0 OHM 1/8W	R152	ERJ12YJ471	M 470 OHM J 1/2W
J739	ERJ8GCRYOR00	M 0 OHM 1/8W	R153	ERJ6GEYJ222	M 2.2K OHM J 1/10W
			R154	ERJ6GEYJ102	M 1K OHM J 1/10W

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
R155	ERJ6GEYJ472	M 4.7K OHM J 1/10W	R372	ERJ8GCVJ475	M 4.7M OHM J 1/8W
R156	ERJ6GEYJ472	M 4.7K OHM J 1/10W	R373	ERJ8GCVJ683	M 68K OHM J 1/8W
R162	ERJ6GEYJ152	M 1.5K OHM J 1/10W	R374	ERJ8ENF1101	M 1.1K OHM F 1/8W
R163	ERJ6GEYJ683	M 68K OHM J 1/10W	R375	ERJ6GEYJ472	M 4.7K OHM J 1/10W
R164	ERJ6GEYJ102	M 1K OHM J 1/10W	R380	ERD25FJ102K	C 1K OHM J 1/4W
R165	ERJ6GEYOR00	M 0 OHM 1/10W	R381	ERJ6ENF2051	M 2.05K OHM F 1/10W
R170	ERJ6ENF2202	M 22K OHM F 1/10W	R382	ERJ6ENF6982	M 69.8K OHM F 1/10W
R171	ERJ6ENF5622	M 56.2K OHM F 1/10W	R384	ERJ6ENF2871	M 2.87K OHM F 1/10W
R172	ERJ6ENF5622	M 56.2K OHM F 1/10W	R385	ERJ8GCVJ121	M 120 OHM J 1/8W
R173	ERJ6ENF6802	M 68K OHM F 1/10W	R386	ERG3FJ103	M 10K OHM J 3W
R174	ERJ6GEYJ270	M 27 OHM J 1/10W	R387	ERJ8GCVJ302	M 3K OHM J 1/8W
R175	ERJ6GEYJ270	M 27 OHM J 1/10W	R389	ERJ8GCVJ102	M 1K OHM J 1/8W
R177	ERJ6GEYOR00	M 0 OHM 1/10W	R390	ERJ6ENF1071	M 1.07K OHM F 1/10W
R188	ERJ6GEYJ103	M 10K OHM J 1/10W	R391	ERJ6GEYJ103	M 10K OHM J 1/10W
R191	ERJ6GEYJ271	M 270 OHM J 1/10W	R392	ERJ6GEYJ562	M 5.6K OHM J 1/10W
R192	ERJ6GEYJ271	M 270 OHM J 1/10W	R393	ERG1SJ273	M 27K OHM J 1W
R193	ERJ6GEYJ471	M 470 OHM J 1/10W	R407	ERJ6ENF2702	M 27K OHM F 1/10W
R194	ERJ6GEYJ222	M 2.2K OHM J 1/10W	R425	ERDS2TJ182	C 1.8K OHM J 1/4W
R195	ERJ6GEYJ222	M 2.2K OHM J 1/10W	R440	ERJ6GEYJ103	M 10K OHM J 1/10W
R196	ERJ6GEYJ471	M 470 OHM J 1/10W	R441	ERJ6GEYJ103	M 10K OHM J 1/10W
R197	ERJ6GEYJ103	M 10K OHM J 1/10W	R442	ERJ6GEYJ332	M 3.3K OHM J 1/10W
R200	ERJ6GEYJ471	M 470 OHM J 1/10W	R480	ERJ6ENF1742	M 17.4K OHM F 1/10W
R201	ERJ6GEYJ101	M 100 OHM J 1/10W	R481	ERJ6ENF2941	M 2.94K OHM F 1/10W
R204	ERJ6GEYJ471	M 470 OHM J 1/10W	R482	ERDS1FJ1R2	C 1.2 OHM J 1/2W
R205	ERJ6GEYJ101	M 100 OHM J 1/10W	R483	ERDS1FJ1R2	C 1.2 OHM J 1/2W
R208	ERJ6GEYJ471	M 470 OHM J 1/10W	R484	EROS2CKF1202	M 12K OHM F 1/4W
R209	ERJ6GEYJ471	M 470 OHM J 1/10W	R485	ERJ6GEYJ122	M 1.2K OHM J 1/10W
R210	ERJ6GEYJ472	M 4.7K OHM J 1/10W	R486	ERJ6ENF1872	M 18.7K OHM F 1/10W
R213	ERJ6GEYOR00	M 0 OHM 1/10W	R487	ERDS2TJ1R0	C 1 OHM J 1/4W
R214	ERJ6GEYOR00	M 0 OHM 1/10W	R488	ERX1SG1R2	M 1.2 OHM G 1W
R221	ERJ6GEYOR00	M 0 OHM 1/10W	R489	ERX1SG1R8	M 1.8 OHM G 1W
R222	ERJ6GEYJ103	M 10K OHM J 1/10W	R501	ERX2SJ3R3	M 3.3 OHM J 2W
R223	ERJ6GEYJ123	M 12K OHM J 1/10W	R502	ERG1SJ390	M 39 OHM J 1W
R224	ERJ6GEYJ563	M 56K OHM J 1/10W	R503	ERJ6GEYJ472	M 4.7K OHM J 1/10W
R240	ERJ6GEYJ271	M 270 OHM J 1/10W	R504	ERJ6GEYJ153	M 15K OHM J 1/10W
R241	ERJ6GEYJ271	M 270 OHM J 1/10W	R505	ERX2SJ3R3	M 3.3 OHM J 2W
R242	ERJ6GEYJ222	M 2.2K OHM J 1/10W	R506	ERD25FJ153K	C 15K OHM J 1/4W
R243	ERJ6GEYJ222	M 2.2K OHM J 1/10W	R507	ERJ6GEYJ392	M 3.9K OHM J 1/10W
R250	ERJ6GEYOR00	M 0 OHM 1/10W	R508	ERJ6GEYJ102	M 1K OHM J 1/10W
R255	ERJ6GEYJ272	M 2.7K OHM J 1/10W	R509	ERJ6GEYJ472	M 4.7K OHM J 1/10W
R256	ERJ6GEYJ121	M 120 OHM J 1/10W	R527	ERJ6GEYOR00	M 0 OHM 1/10W
R257	ERJ6GEYJ222	M 2.2K OHM J 1/10W	R530	ERQ12AJ270	F 27 OHM J 1/2W
R258	ERJ6GEYJ561	M 560 OHM J 1/10W	R531	ERJ12YJ5R6	M 5.6 OHM J 1/2W
R261	ERJ6GEYJ683	M 68K OHM J 1/10W	R532	ERJ12YJ5R6	M 5.6 OHM J 1/2W
R275	ERJ6GEYJ223	M 22K OHM J 1/10W	R542	ERJ6ENF5601	M 5.6K OHM F 1/10W
R276	ERJ6GEYJ223	M 22K OHM J 1/10W	R543	ERJ6ENF6491	M 6.49K OHM F 1/10W
R280	ERJ6GEYJ152	M 1.5K OHM J 1/10W	R544	ERJ6ENF1502	M 15K OHM F 1/10W
R281	ERJ6GEYJ104	M 100K OHM J 1/10W	R545	ERG3FJ470	M 47 OHM J 3W
R282	ERJ6GEYJ102	M 1K OHM J 1/10W	R546	ERG3FJ470	M 47 OHM J 3W
R283	ERJ6GEYOR00	M 0 OHM 1/10W	R547	ERJ6GEYJ470	M 47 OHM J 1/10W
R284	ERJ6GEYOR00	M 0 OHM 1/10W	R548	ERJ6GEYJ332	M 3.3K OHM J 1/10W
R285	ERJ6GEYJ102	M 1K OHM J 1/10W	R549	ERG2SJ561	M 560 OHM J 2W
R286	ERJ6GEYJ561	M 560 OHM J 1/10W	R550	ERQ12AJR47	F 0.47 OHM J 1/2W
R291	ERJ6GEYJ223	M 22K OHM J 1/10W	R551	ERX3FJX1R8D	M 1.8 OHM J 3W
R292	ERJ6GEYJ223	M 22K OHM J 1/10W	R552	ERX3FJX1R8D	M 1.8 OHM J 3W
R293	ERJ6GEYJ102	M 1K OHM J 1/10W	R554	ERX3FJX6R8D	M 6.8 OHM J 3W
R294	ERJ6GEYJ102	M 1K OHM J 1/10W	R555	ERD25TCO	C 0 OHM 1/4W
R350	ERQ14AJ330	F 33 OHM J 1/4W	R560	ERJ6GEYJ472	M 4.7K OHM J 1/10W
R353	ERDS1FJ100	C 10 OHM J 1/2W	R561	ERJ6GEYJ100	M 10 OHM J 1/10W
R354	ERDS1FJ100	C 10 OHM J 1/2W	R563	ERJ6GEYJ472	M 4.7K OHM J 1/10W
R355	ERG2SJ270	M 27 OHM J 2W	R564	ERJ6GEYJ100	M 10 OHM J 1/10W
R371	ERDS1FJ364	C 360K OHM J 1/2W	R566	ERJ6GEYJ472	M 4.7K OHM J 1/10W

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
R567	ERJ6GEYJ100	M 10 OHM J 1/10W	R849	ERDS2TJ122	C 1.2K OHM J 1/4W
R568	ERJ6GEYJ472	M 4.7K OHM J 1/10W	R850	ERJ6GEYJ102	M 1K OHM J 1/10W
R569	ERJ6GEYJ100	M 10 OHM J 1/10W	R853	ERJ6GEYJ271	M 270 OHM J 1/10W
R574	ERDS1FJ181	C 180 OHM J 1/2W	R854	ERJ6GEYJ820	M 82 OHM J 1/10W
R575	ERQ12AJ271	F 270 OHM J 1/2W	R855	ERJ6GEYJ102	M 1K OHM J 1/10W
R595	ERJ6GEYJ562	M 5.6K OHM J 1/10W	R856	ERA6YEB104	M 100K OHM B 1/10W
R596	ERJ6GEYJ562	M 5.6K OHM J 1/10W	R857	ERA6YEB302	M 3K OHM B 1/10W
R597	ERJ6GEYJ562	M 5.6K OHM J 1/10W	R858	ERJ6GEYJ102	M 1K OHM J 1/10W
R602	ERX1SJR33	M 0.33 OHM J 1W	R859	ERD25FJ391K	C 390 OHM J 1/4W
R603	ERX1SJR39	M 0.39 OHM J 1W	R860	ERJ6GEYJ103	M 10K OHM J 1/10W
R604	TARRS5B101J2	M 100 OHM J 5W	R861	ERQ12AJR33HK	F 0.33 OHM J 1/2W
R605	TARRS5B101J2	M 100 OHM J 5W	R862	TAR14CJOR15V	M 0.15 OHM J 1/2W
R606	ERJ6GEYJ220	M 22 OHM J 1/10W	R863	ERQ12AJR47	F 0.47 OHM J 1/2W
R648	ERJ6ENF8060	M 806 OHM F 1/10W	R864	ERQ12AJR12HK	F 0.12 OHM J 1/2W
R649	ERJ6GEYOR00	M 0 OHM 1/10W	R865	ERQ12AJR12HK	F 0.12 OHM J 1/2W
R650	ERJ8GCRYOR00	M 0 OHM 1/8W	R866	ERQ12AJR12HK	F 0.12 OHM J 1/2W
R651	ERQ14AJ100	F 10 OHM J 1/4W	R867	ERJ6GEYJ104	M 100K OHM J 1/10W
R652	ERQ14AJR47HK	F 0.47 OHM J 1/4W	R868	ERQ12AJR47	F 0.47 OHM J 1/2W
R653	ERQ14AJR47HK	F 0.47 OHM J 1/4W	R869	ERD25FJ471K	C 470 OHM J 1/4W
R655	ERJ8ENF5231	M 5.23K OHM F 1/8W	R870	ERDS1FJ224	C 220K OHM J 1/2W
R656	ERJ6GEYJ223	M 22K OHM J 1/10W	R871	ERJ6GEYJ183	M 18K OHM J 1/10W
R657	ERJ6ENF3162	M 31.6K OHM F 1/10W	R872	ERJ6ENF1822	M 18.2K OHM F 1/10W
R658	ERJ6ENF1002	M 10K OHM F 1/10W	R873	ERJ6ENF4222	M 42.2K OHM F 1/10W
R660	ERJ6GEYJ270	M 27 OHM J 1/10W	R874	ERJ6GEYJ101	M 100 OHM J 1/10W
R671	EROS2CKF1333	M 133K OHM F 1/4W	R875	ERJ6GEYJ102	M 1K OHM J 1/10W
R672	EROS2CKF1433	M 143K OHM F 1/4W	R876	ERJ6GEYJ562	M 5.6K OHM J 1/10W
R673	ERDS2TJ474	C 470K OHM J 1/4W	R877	ERJ6GEYJ753	M 75K OHM J 1/10W
R680	ERJ6GEYJ153	M 15K OHM J 1/10W	R878	ERG1SJ683	M 68K OHM J 1W
R682	ERJ6GEYJ221	M 220 OHM J 1/10W	R879	ERJ8GCRYJ332	M 3.3K OHM J 1/8W
R683	ERJ6GEYJ562	M 5.6K OHM J 1/10W	R880	EROS2CKF1211	M 1.21K OHM F 1/4W
R684	ERJ6ENF1002	M 10K OHM F 1/10W	R881	ERJ6ENF1821	M 1.82K OHM F 1/10W
R685	ERJ6ENF2372	M 23.7K OHM F 1/10W	R882	ERJ6ENF4531	M 4.53K OHM F 1/10W
R687	ERJ6GEYJ333	M 33K OHM J 1/10W	R883	ERJ6GEYJ103	M 10K OHM J 1/10W
R720	ERJ6GEYJ682	M 6.8K OHM J 1/10W	R884	ERJ6ENF6041	M 6.04K OHM F 1/10W
R721	ERJ6GEYJ164	M 160K OHM J 1/10W	R885	ERJ6ENF3741	M 3.74K OHM F 1/10W
R722	ERJ6GEYJ182	M 1.8K OHM J 1/10W	R886	ERJ6GEYJ103	M 10K OHM J 1/10W
R801	ERC12AGK105	S 1M OHM K 1/2W	R887	ERJ6GEYJ103	M 10K OHM J 1/10W
R820	ERJ6GEYJ563	M 56K OHM J 1/10W	R888	ERJ6GEYJ103	M 10K OHM J 1/10W
R821	ERF2EKR22	W 0.22 OHM K 2W	R889	ERJ6GEYJ391	M 390 OHM J 1/10W
R822	TARRS3B104J2	M 100K OHM J 3W	R890	ERX2SJ1R0	M 1 OHM J 2W
R823	ERJ6GEYJ103	M 10K OHM J 1/10W	R891	ERJ6GEYJ103	M 10K OHM J 1/10W
R824	ERJ6ENF1211	M 1.21K OHM F 1/10W	R892	ERJ6ENF4420	M 442 OHM F 1/10W
R825	ERJ6GEYJ682	M 6.8K OHM J 1/10W	R893	ERDS1FJ224	C 220K OHM J 1/2W
R826	ERJ6ENF1752	M 71.5K OHM F 1/10W	R894	ERJ6GEYJ102	M 1K OHM J 1/10W
R827	ERDS1FJ394	C 390K OHM J 1/2W	R895	ERJ6GEYJ101	M 100 OHM J 1/10W
R828	ERDS1FJ394	C 390K OHM J 1/2W	R896	ERJ6GEYJ332	M 3.3K OHM J 1/10W
R829	ERJ8GCRYJ223	M 22K OHM J 1/8W	R897	ERJ6GEYJ225	M 2.2M OHM J 1/10W
R830	ERJ6GEYJ273	M 27K OHM J 1/10W	R898	ERJ6ENF2001	M 2K OHM F 1/10W
R831	ERD25FJ560K	C 56 OHM J 1/4W	R899	ERJ6GEYJ103	M 10K OHM J 1/10W
R832	ERJ6GEYJ220	M 22 OHM J 1/10W	R902	ERJ6GEYJ103	M 10K OHM J 1/10W
R833	ERD25FJ223K	C 22K OHM J 1/4W	R903	ERJ6GEYJ102	M 1K OHM J 1/10W
R834	ERJ8GCRYJ222	M 2.2K OHM J 1/8W	R905	ERJ6GEYJ331	M 330 OHM J 1/10W
R835	ERJ8GCRYJ222	M 2.2K OHM J 1/8W	R906	ERJ6GEYJ331	M 330 OHM J 1/10W
R836	ERG3FJ820	M 82 OHM J 3W	R909	ERJ6GEYJ562	M 5.6K OHM J 1/10W
R837	ERJ6ENF1400	M 140 OHM F 1/10W	R913	ERJ6GEYJ562	M 5.6K OHM J 1/10W
R838	ERJ6GEYJ222	M 2.2K OHM J 1/10W	R961	ERJ6GEYOR00	M 0 OHM 1/10W
R839	ERJ6GEYJ332	M 3.3K OHM J 1/10W	R975	ERJ6GEYJ101	M 100 OHM J 1/10W
R840	ERJ6GEYJ103	M 10K OHM J 1/10W	R978	ERJ6GEYJ101	M 100 OHM J 1/10W
R841	ERDS1FJ104	C 100K OHM J 1/2W	R979	ERJ6GEYJ101	M 100 OHM J 1/10W
R842	ERJ6GEYJ180	M 18 OHM J 1/10W	R988	ERJ6GEYJ102	M 1K OHM J 1/10W
R843	ERJ6GEYJ103	M 10K OHM J 1/10W	R990	ERDS2TJ103	C 10K OHM J 1/4W
R847	ERJ6GEYK2R2	M 2.2 OHM K 1/10W	R991	ERDS2TJ103	C 10K OHM J 1/4W

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
R992	ERJ6GEYOR00	M 0 OHM 1/10W	R1223	ERJ6GEYJ330	M 33 OHM J 1/10W
R993	ERJ6GEYOR00	M 0 OHM 1/10W	R1230	ERJ6GEYJ330	M 33 OHM J 1/10W
R1007	ERJ6ENF11R5	M 11.5 OHM F 1/10W	R1231	ERJ6GEYJ331	M 330 OHM J 1/10W
R1011	TAJADQ76R8FV	M 76.8 OHM F 1/3W	R1232	ERJ6GEYJ100	M 10 OHM J 1/10W
R1012	ERJ6GEYJ223	M 22K OHM J 1/10W	R1233	ERJ6GEYJ330	M 33 OHM J 1/10W
R1013	ERJ6GEYJ123	M 12K OHM J 1/10W	R1240	ERJ6ENF2260	M 226 OHM F 1/10W
R1014	ERJ6ENF3900	M 390 OHM F 1/10W	R1241	ERJ6ENF30R1	M 30.1 OHM F 1/10W
R1020	TAJADQ75ROFV	M 75 OHM F 1/3W	R1242	ERJ6GEYJ682	M 6.8K OHM J 1/10W
R1021	ERJ6GEYJ330	M 33 OHM J 1/10W	R1244	ERJ6ENF1581	M 1.58K OHM F 1/10W
R1022	ERJ8GICYJ471	M 470 OHM J 1/8W	R1250	ERJ6ENF1053	M 105K OHM F 1/10W
R1023	ERJ6GEYJ330	M 33 OHM J 1/10W	R1252	ERJ6GEYOR00	M 0 OHM 1/10W
R1030	ERJ6GEYJ330	M 33 OHM J 1/10W	R1255	ERDS2TJ471	C 470 OHM J 1/4W
R1031	ERJ6GEYJ331	M 330 OHM J 1/10W	R1257	ERDS1FJ330	C 33 OHM J 1/2W
R1032	ERJ6GEYJ100	M 10 OHM J 1/10W	R1261	ERJ6ENF2372	M 23.7K OHM F 1/10W
R1033	ERJ6GEYJ330	M 33 OHM J 1/10W	R1262	ERJ6ENF4532	M 45.3K OHM F 1/10W
R1040	ERJ6ENF2260	M 226 OHM F 1/10W	R1265	ERJ6GEYJ221	M 220 OHM J 1/10W
R1041	ERJ6ENF29R4	M 29.4 OHM F 1/10W	R1266	ERJ6GEYJ103	M 10K OHM J 1/10W
R1042	ERJ6GEYJ682	M 6.8K OHM J 1/10W	R1267	ERDS2TJ224	C 220K OHM J 1/4W
R1044	ERJ6ENF1581	M 1.58K OHM F 1/10W	R1301	ERJ6GEYJ103	M 10K OHM J 1/10W
R1050	ERJ6ENF1053	M 105K OHM F 1/10W	R1303	ERJ6GEYJ103	M 10K OHM J 1/10W
R1052	ERJ6GEYOR00	M 0 OHM 1/10W	R1320	ERJ6GEYJ101	M 100 OHM J 1/10W
R1055	ERDS2TJ471	C 470 OHM J 1/4W	R1321	ERJ6GEYJ101	M 100 OHM J 1/10W
R1057	ERDS1FJ330	C 33 OHM J 1/2W	R1322	ERJ6GEYJ101	M 100 OHM J 1/10W
R1061	ERJ6ENF2372	M 23.7K OHM F 1/10W	R1325	ERJ6ENF2372	M 23.7K OHM F 1/10W
R1062	ERJ6ENF4532	M 45.3K OHM F 1/10W	R1326	ERJ6ENF4641	M 4.64K OHM F 1/10W
R1065	ERJ6GEYJ221	M 220 OHM J 1/10W	R1327	ERJ6GEYJ470	M 47 OHM J 1/10W
R1066	ERJ6GEYJ103	M 10K OHM J 1/10W	R1330	ERJ6GEYJ102	M 1K OHM J 1/10W
R1067	ERDS2TJ224	C 220K OHM J 1/4W	R1331	ERJ6GEYJ683	M 68K OHM J 1/10W
R1107	ERJ6ENF11R5	M 11.5 OHM F 1/10W	R1332	ERJ6GEYOR00	M 0 OHM 1/10W
R1111	TAJADQ76R8FV	M 76.8 OHM F 1/3W	R1333	ERJ6ENF7501	M 7.5K OHM F 1/10W
R1112	ERJ6GEYJ223	M 22K OHM J 1/10W	R1334	ERJ6ENF1002	M 10K OHM F 1/10W
R1113	ERJ6GEYJ123	M 12K OHM J 1/10W	R1335	ERJ6GEYJ562	M 5.6K OHM J 1/10W
R1114	ERJ6ENF1400	M 140 OHM F 1/10W	R1336	ERJ6GEYJ223	M 22K OHM J 1/10W
R1120	TAJADQ75ROFV	M 75 OHM F 1/3W	R1338	ERJ6GEYJ123	M 12K OHM J 1/10W
R1121	ERJ6GEYJ330	M 33 OHM J 1/10W	R1339	ERJ6GEYJ183	M 18K OHM J 1/10W
R1122	ERJ8GICYJ471	M 470 OHM J 1/8W	R1340	ERJ6GEYJ331	M 330 OHM J 1/10W
R1123	ERJ6GEYJ330	M 33 OHM J 1/10W	R1341	ERDS1FJ682	C 6.8K OHM J 1/2W
R1130	ERJ6GEYJ330	M 33 OHM J 1/10W	R1343	ERQ14AJR47HK	F 0.47 OHM J 1/4W
R1131	ERJ6GEYJ331	M 330 OHM J 1/10W	R1345	ERJ6GEYJ222	M 2.2K OHM J 1/10W
R1132	ERJ6GEYJ100	M 10 OHM J 1/10W	R1346	ERDS1FJ561	C 560 OHM J 1/2W
R1133	ERJ6GEYJ330	M 33 OHM J 1/10W	R1347	ERJ6ENF1241	M 1.24K OHM F 1/10W
R1140	ERJ6ENF2260	M 226 OHM F 1/10W	R1348	ERJ6ENF1002	M 10K OHM F 1/10W
R1141	ERJ6ENF26R7	M 26.7 OHM F 1/10W	R1355	ERDS1FJ680	C 68 OHM J 1/2W
R1142	ERJ6GEYJ682	M 6.8K OHM J 1/10W	R1360	ERJ6GEYJ222	M 2.2K OHM J 1/10W
R1144	ERJ6ENF1581	M 1.58K OHM F 1/10W	R1361	ERJ6GEYJ563	M 56K OHM J 1/10W
R1150	ERJ6ENF1053	M 105K OHM F 1/10W	R1362	ERJ6GEYJ102	M 1K OHM J 1/10W
R1152	ERJ6GEYOR00	M 0 OHM 1/10W	R1364	ERJ6ENF6192	M 61.9K OHM F 1/10W
R1155	ERDS2TJ471	C 470 OHM J 1/4W	R1365	EROS2CKF1004	M 1M OHM F 1/4W
R1157	ERDS1FJ330	C 33 OHM J 1/2W	R1366	ERJ6GEYJ103	M 10K OHM J 1/10W
R1161	ERJ6ENF2372	M 23.7K OHM F 1/10W	R1370	ERJ6GEYJ472	M 4.7K OHM J 1/10W
R1162	ERJ6ENF4532	M 45.3K OHM F 1/10W	R1371	ERJ6GEYJ682	M 6.8K OHM J 1/10W
R1165	ERJ6GEYJ221	M 220 OHM J 1/10W	R1372	ERJ6GEYJ332	M 3.3K OHM J 1/10W
R1166	ERJ6GEYJ103	M 10K OHM J 1/10W	R1373	ERJ6GEYJ682	M 6.8K OHM J 1/10W
R1167	ERDS2TJ224	C 220K OHM J 1/4W	R1374	ERJ6GEYJ153	M 15K OHM J 1/10W
R1207	ERJ6ENF11R5	M 11.5 OHM F 1/10W	R1391	ERDS1FJ125	C 1.2M OHM J 1/2W
R1211	TAJADQ76R8FV	M 76.8 OHM F 1/3W	R1392	ERJ6GEYJ472	M 4.7K OHM J 1/10W
R1212	ERJ6GEYJ223	M 22K OHM J 1/10W	R1393	ERJ6GEYJ152	M 1.5K OHM J 1/10W
R1213	ERJ6GEYJ123	M 12K OHM J 1/10W	R1394	ERJ6GEYJ392	M 3.9K OHM J 1/10W
R1214	ERJ6ENF3900	M 390 OHM F 1/10W	R1395	ERJ6GEYJ102	M 1K OHM J 1/10W
R1220	TAJADQ75ROFV	M 75 OHM F 1/3W	R1396	ERDS1FJ224	C 220K OHM J 1/2W
R1221	ERJ6GEYJ330	M 33 OHM J 1/10W	R1401	ERJ6GEYJ330	M 33 OHM J 1/10W
R1222	ERJ8GICYJ471	M 470 OHM J 1/8W	R1402	ERJ6GEYJ562	M 5.6K OHM J 1/10W

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
R1403	ERJ6GEYJ561	M 560 OHM J 1/10W	N891	TEL302-9	TERMINAL
R1404	ERJ6ENF1501	M 1.5K OHM F 1/10W	N893	TEL302-9	TERMINAL
R1405	ERJ6GEYJ105	M 1M OHM J 1/10W	△ N903	EMCS0451ML	4P CONNECTOR(L-TYPE)
R1412	ERJ6GEYJ101	M 100 OHM J 1/10W	N1002A	TJS8A4291	PHONO PIN CONNECTOR
R1413	ERJ6GEYJ101	M 100 OHM J 1/10W	N1002B	TJS8A4291	PHONO PIN CONNECTOR
R1414	ERJ6GEYJ102	M 1K OHM J 1/10W	△ N1004	TJSC00600	CRT SOCKET
R1415	ERJ6GEYJ102	M 1K OHM J 1/10W	N1005	TJC85342T	LUG TERMINAL
R1501	ERJ6GEYJ103	M 10K OHM J 1/10W	N1006	TJCD003	TERMINAL
R1502	ERJ6GEYJ103	M 10K OHM J 1/10W	△ N1007	TSXX054	1P/2P CONNECTOR ASSY
	OTHERS		△ N1011	TJSF26615	15P CONNECTOR(D-SUB)
	TESAO27	CRT PCB HOLDER	N1015A	TJSF09554	54P CONNECTOR
	THECO159	SCREW(FOR CRT PCB HOLDER)	N1102A	TJS8A4291	PHONO PIN CONNECTOR
	THE902N	D-SUB SCREW	N1102B	TJS8A4291	PHONO PIN CONNECTOR
	THTF001	SCREW(FOR IC/TR/D)	N1202A	TJS8A4291	PHONO PIN CONNECTOR
	TMKK027	DOUBLE FACE TAPE	N1202B	TJS8A4291	PHONO PIN CONNECTOR
△	TMMK030	INSULATION TUBE	N510-1	TEL302-9	TERMINAL
△	TMM81417-1	CORD BAND(BIG)	N510-2	TEL302-9	TERMINAL
	TSC8908-0	FERRITE CORE	N510-3	TEL302-9	TERMINAL
	TSXF134	PHONO PIN CABLE(GREY)	N510-4	TEL302-9	TERMINAL
	TSXF135	PHONO PIN CABLE(RED)	N901-1	TEL302-9	TERMINAL
	TSXF136	PHONO PIN CABLE(BLUE)	N901-2	TEL302-9	TERMINAL
	TUCC5095-1	AC SOCKET BRACKET	△ PC821	ON3171	PHOTO COUPLER
	TUCC5270	SHIELD CASE(CRT PCB)	△ PC822	ON3171	PHOTO COUPLER
	TUCC5271	SHIELD PLATE(CRT PCB)	△ PC823	HCNW4504	PHOTO COUPLER
	TUWF034	BNC TERMINAL BRACKET	Q16	UN11004	IC PROTECTOR(0.4A)
	XTV3+10J	SCREW	RL571	TSEH0012	RELAY
	XYE3+EJ10	SCREW	△ RL901	TSEH0010	RELAY
△ CL1	TMM85490	LEAD CLAMPER	S371	TAGAO005	SPARK GAP
CL2	TUXX104	WIRE CLIP	S671	TAGDSP141T	SPARK GAP
△ F801	XBA2C50TB15L	FUSE(5.0A)	S1051	TAGDSP141T	SPARK GAP
F851	TSFX37A632	FUSE(6.3A)	S1151	TAGDSP141T	SPARK GAP
FG1	TJC85341	EARTH LUG	S1251	TAGDSP141T	SPARK GAP
FG2	TJC85341	EARTH LUG	S1351	TAGDSP141T	SPARK GAP
FG3	TJC85341	EARTH LUG	S1355	TAGDSP201MF	SPARK GAP
FG4	TJC85341	EARTH LUG	S1371	TAGAO005	SPARK GAP
FG5	TJC85341	EARTH LUG	△ SW801	ESB91274A	SWITCH(POWER)
FG6	TJC85341	EARTH LUG	SW991	EVQ33405R	SWITCH
FG7	TJC85341	EARTH LUG	SW992	EVQ33405R	SWITCH
FG8	TJC85341	EARTH LUG	SW993	EVQ33405R	SWITCH
FG9	TJC85341	EARTH LUG	SW994	EVQ33405R	SWITCH
FG10	TJC85341	EARTH LUG	TH801	ERTB6SFL100P	THERMISTOR
FG11	TJC85341	EARTH LUG	△ TH901	TAP108M7RO	POSISTOR
FG101	TJC85341	EARTH LUG	TP5	TEL302-9	TERMINAL
FG102	TJC85341	EARTH LUG	X101	TAAA0005	CRYSTAL OSCILLATOR
FG103	TJC85341	EARTH LUG			
FS801	TJC85502T	FUSE HOLDER			
FS802	TJC85502T	FUSE HOLDER			
△ N11	EMCS0464M	4P CONNECTOR			
△ N12-	TSXX082	2P/3P CONNECTOR ASSY			
△ N22A	TJSF07805	5P CONNECTOR			
△ N22B	TJSF16305	5P CONNECTOR			
△ N100A	TJSF07820	20P CONNECTOR			
△ N100B	TJSF16320	20P CONNECTOR(L-TYPE)			
△ N101	TJS118590	2P CONNECTOR			
△ N150A	TJSF08012	12P CONNECTOR			
△ N150B	TJSF07912	12P CONNECTOR(L-TYPE)			
N490	TJEA022	HEAT SINK TERMINAL			
N651	TJC85342T	LUG TERMINAL			
N652	TJCD003	TERMINAL			
△ N801	TJS8A9361	AC SOCKET			
△ N861	EMCS0264M	2P CONNECTOR			